

A N S W E R

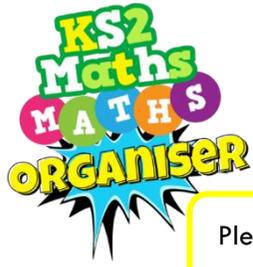
Booklet

The Ultimate

**KS2
Maths
SATS**
**ORGANISER
2018**

Further answers will be added to this booklet as more videos are added to the **YouTube** channel, and more questions added to the printable Booster Packs.





COLUMN METHODS + and -



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Help Code : 001

Page 1

Q1 – 1,040

Q2 – 2,525

Q4 – 1,609

Q5 - 285

Q6 – 5.174

Q7 – 5,100

Page 2

Q3 – Answers left to right 6, 6, 1

Q4 – Answers 191,118 and 48,361

Q11 – Answers left to right 5, 3, 2, 1

Q11 – 4,088

Q13 – 1,159

Q14 – Answer 9.125

Q16 – Answer 42.294

Q17 – Answer 53.18

Q21 – 5.55

Q25 – 23.129

Page 3

Q1 – Answers 1079

Q3 – Answers 6.4

Q5 – Answers left to right 1620

Q7 – Answer 463

Q8 – Answer 2.55

Q14 – Answer 49,500

Q20 – Answer 14,399

Q21 – Answer 2.85

Q22 – Answer 5.99

Page 4

Q1 – Answer 1087

Q2 – Answer 350

Q4 – Answer 459

Q5 – Answer 1221

Q7 – Answer 97,637

Q8 – Answer 405

Q17 – Answer 53.18

Q18 – Answer 110,457

Q24 – Answer 6.52

Q28 – Answer 188,901

Page 5

Q1 – Answers square 130 and triangle 95

Q3 – Answer 288

Q4 – Answer 26

Q7 – Answer 216

Q8 – Answer 18.85

Q12 – Answer $82+82+66+33 = \text{£}2.63$

Page 6	Q8 – Answer 451km	Q6 – Answer 74p and 22p
Q2 – Answers 23 and 33	Q9 – Answer David 125m Rosie 120, Difference 5m	Q14 – Answer £2.47
Q4 – Answers 40p and Sarah £1.55, Amy £0.90, difference 65p	Q10 – Answer 1717	Q16 – Answer 689
Q6 – Answers 54 and 63	Page 10	Page 13
Q12 – Answers Dev £3.95, Joe £7, difference £3.05	Q3 – Answers £2.45 milk and melon or juice and apple	Q7 – Answer 107 and 53
Page 7	Q5 – Answer 111	
Q2 – Answers 26+74 or 24+76	Q7 – Answer £4.10 and £3	
Q5 – Answer 15 and USA	Q8 – Answer 1614	
Q7 – Answer 144	Q10 – Answer £2.86 difference and £2.02 change	
Q9 – Answer Jack	Page 11	
Q11 – Answer £7.55 change from £20, and £22.40	Q1 – Answers 85+85 and 450-300	
Page 8	Q4 – Answer 80p and £2.25	
Q2 – Answers 250+400+350 or 350+200+450 or 450+200+250	Q6 – Answer £112 and £16	
Q3 – Answer 421	Q6 – Answer £2.45 and card code CC	
Q6 – Answer £15 and 12	Q12 – Answer missing digits 6 and 7	
Q9 – Answer 55p	Page 12	
Q18 – Answer 1 pen = 35p 1 notebook = 75p	Q2 – Answers 350 and 112	
Page 9	Q5 2000 – Answer 620	
Q1 – Answers 150to180, 200to170, 250to220, 300to330	Q5 2001 – Answer 960	
Q5 – Answer bottom left 30, bottom right 70, top right 20		

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Help Code : 002

Page 1

Q3 Left side along top 7 , 6, down side 8

Q3 right side 96×5 or 95×6

Q8 264

Q10 668

Page 2

Q5 – Answer 7 hours 24 minutes

Q7 – Answer 101-199 – 120, 140, 160, 180

201-299 – 210, 240, 270

301-399 – 320, 360

Q10 – Answer 2,637

Q11 – Answer 568

Q12 – Answer 3500

Q14 – Answer 24 and 48

Q16 - 1200

Q26 – Answer 91.5

Q33 - 180

Page 3

Q1 – Answer top right 3, 6, 9, 12, 18, 21, 24, 27, 33, 36

Bottom left 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55,

Bottom right 1, 2, 4, 7, 8, 11, 13, 14, 16, 17, 19

Q2 – Answer 246

Q4 – Answer 72

Q6 – Answer 8

Q9 – Answer 140

Q14 – Answer middle row box 4.5
bottom row boxes 2.25 and 2.5

Q15 – Answer 10,000

Q18 – Answer 9.12

Page 4

Q2 – Answer $5 \times 8 = 40$
or $5 \times 6 = 30$

Q4 – Answer 5×4 or 4×5

Q12 – Answer 6

Q11 – Answer 3,804

Page 5

Q2 – Answer half $98 = 49$
double $4 \times 4 = 32$

Q8 – Answer 32

Q10 – Answer top chart 84, bottom chart 97

Q11 – Answer 340

Q15 – Answer 50

because all numbers ending in 3 are ODD so they can't be in the 4 timestable because all multiples of 4 are even

Q16 – Answer 271.8

Page 6

Q2 – Answer 12, 13 and 15 OR 14, 17 and 19

Q4 – Answer 4 and 150

Q6 – Answer 15 and 25

Q9 – Answer 5

Page 7

Q13 – Answer 18,456

Q14 – Answer top line 9 and 8, down the side 7 and 6

Q17 – Answer 221.2

Q25 – Answer 10, 20 and 5 and 2 OR 4

Q26 – Answer 20

Page 8

Q2 – Answer 350 and 50

Q7 – Answer 32, 56 and 72

Q11 – Answer £21.80 and because it would cost £23.40

Q18 – Answer 2 green, 3 red.

Nika could pay £1.80 for 20 red apples while Hassan pays £2.25 for only 18

Q19 – Answer missing digits are 5 and 6

Page 9

Q1 2000 – Answer $10 \times 5 = 2 \times 25$, $5 \times 8 = 10 \times 4$, $9 \times 10 = 3 \times 30$, $5 \times 20 = 50 \times 2$

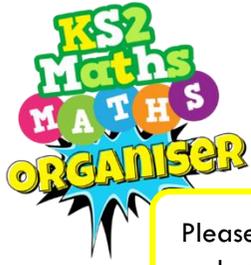
Q1 2001 – Answer 65, 8 and 180

Q4 – Answer 15 should be in multiples of 5, 8 should be in multiples of 2 and 40 should be in the overlap

Q9 – Answer 3 and 2

Q18 – Answer 100 and 10,000 OR 10 and 100,000

Q23 – 165 is 30 less than 195 and 30 is 10 lots of 3. Ten lots less than sixty five lots would be fifty five lots of 3.



LONG MULTIPLICATION



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Help Code : 003

Page 1

Q22 – 109,963

Q24 – 19,228

Page 2

Q10 – Answer both boxes are 5's

Q23 – Answer half of 50 boys is 18 boys, just under half of 100 girls is just under 50 girls which is more than 25 boys

Q23 – Answer £11.40

Q29– Answer 150 pages

Q30 – Answer $1/32$

Page 3

Q9 – Answer 24

Q18 – Answer half of 50 boys is 18 boys, just under half of 100 girls is just under 50 girls which is more than 25 boys

Q20 – Answer £11.40

Q20– Answer 150 pages

Q26 – Answer $1/32$

Q34 – Answer 56

Page 4

Q9 – Answer 24

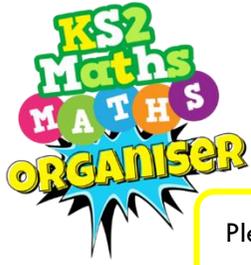
Q18 – Answer half of 50 boys is 18 boys, just under half of 100 girls is just under 50 girls which is more than 25 boys

Q20 – Answer £11.40

Q20– Answer 150 pages

Q26 – Answer $1/32$

Q34 – Answer 56



DIVISION



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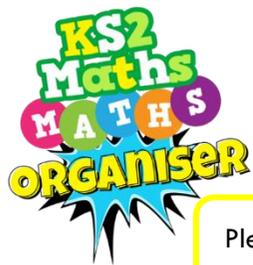
Help Code : 004

Page 1	Q28 – 5/16	Q12b – Answer 300 grams
Q2 -5 friends	Q28 – Answer 25	Q13 – Answer 52
Q4 -505	Q32 – Answer 26	Q14 – Answer 24
Q9 -8		Q19 – Answer 34
Q17 - 83	Page 3	Q20 – Answer 24
Q20 - 42	Q3 – Answer 326	Q21 – Answer 17
Q36 - 38	Q6 – Answer 19	Q23 – Answer 101
	Q6 – Answer 6	
Page 2	Q11 – Answer 70	Page 5
Q9 – Answer 24	Q16 – 120	Q4 – Answer 4
Q14 – Answer middle row 4.5, bottom row 2.25 and 2.5	Q21 – Answer 1501	Q6 – Answer 15
Q15 – Answer 162	Q25 – Answer 232	Q11 2001 – Answer 121
Q18 – Answer 20	Q34 – Answer 63	Q11 2003 – Answer 11
Q21 – Answer add an extra 326 to 5542 and you would have 18 lots of 326	Page 4	Q19 – Answer 50
Q22 – Answer 110	Q5 – Answer 14	Q21 – Answer 5
Q27 – 4/20 or 1/5	Q7 – Answer 16	Q22 2002 – Answer 42
		Q22 2003 – Answer 20

Q22 2006 – Answer 53

Page 6

Q6 – Answer 74p



DECIMALS



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Help Code : 005

Page 1

Q1 - 10

Q6 - 5.714

Q18 – 0.004

Q21 – 5.55

Q25 – 23.129

Q33 - 180

Page 2

Q3 – Answer 6.4

Q8 – Answer 2.55

Q14 – Answer 9.125

Q16 – Answer 42.294

Q17 – Answer 53.18

Q21 – Answer 2.85

Q22 – Answer 5.99

Page 3

Q7 – Answer 97,637

Q17 – Answer 53.18

Q20 – Answer 14,399

Q24 – Answer 6.52

Page 4

Q10 – Answer 0.01 and 9.99

Q14 2008 – Answer 19.42

Q14 2009 – Answer 0.25 and 0.75

Q16 2007 – Answer 0.8 and 0.67

Q16 2008 – Answer 271.8

Q17 – Answer 22.11

Q24 – Answer 1.4 and 1 and a $\frac{1}{3}$

Page 5

Q8 – greater than $\frac{1}{2}$ $\frac{11}{20}$, less than $\frac{1}{2}$ 0.06 and 0.21

Q11 2000 – Answer 0.05 and 0.07

Q11 2002 – Answer £21.80 and he is correct because each rectangular slab need 2 square slabs and 2×1.95 is £3.90 which is more than £3.50

Q16 – Answer 0.21

Q17 2003 – Answer 10.8 and 17.3

Q17 2004 – Answer 221.2

Q21 – 4.85



PERCENTAGES



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Page 1

Q17 – Answer 35%

Q17 – Answer 300

Q25 – Answer 360

Q27 – Answer 228

Q29 – $15\% \times 440 =$ Answer 66

Q29 – 45% Of 460 = 207

Q31 - 35

Page 2

Q21 – Answer 160

Q24 2001– Answer 69

Q24 2004 – Answer 180

Q24 2008 – Answer 150

Q26 - Answer any explanation that says how to get from 40% up to 100% e.g divide by 4 for 10% and then times by 10. Or half it for 20% and then times by 5. Or double it for 80% and add on half as much again.

Q34 – Answer 150

Page 3

Q22 – Answer £17,500 because the amount for November is £15,00 which is double October's £7500 and when you double it it is increasing by 100%

Help Code : 006



MULTIPLY + DIVIDE by 10, 100 and 1000



Help Code : 007

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Page 1

Q1 - 10

Q2 - 9070

Q18 – 0.004

Q19 – 2,345,000

Page 2

Q6 – Answer $\div 10$, $\times 1000$, $\div 100$,

Q12 – Answer 128

Q13 – Answer 41,200

Q15– Answer 10,000

Q20 – Answer 0.09

Page 3

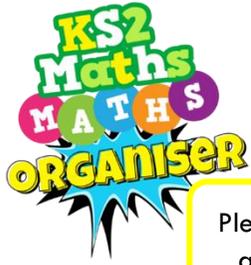
Q12 – 1500, 150, 15000,15

Q20 –

first line 100, 0.47,

Second line 4.07, 10

Answers multiplying and dividing EXTRA PRACTICE sections are at the bottom of page 3 (upside down)



FRACTIONS + or -



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Help Code : 008

Page 1

Q3 – $7/6$ or 1 whole and $1/6$

Q10 – Answer $3/5$

Q12 – $24/100$ or $12/50$ or $6/25$

Q19 – Answer $5/9$

Q21 – $3/8$ and $2 \text{ \& } 7/8$

Q23 – $3/8$

Q26 0.55 or $11/20$

Page 2

Q12 – Answer 0.993 or $993/1000$

Q23 – $7/12$ or $14/24$

Q24 – Answer $9/7$ or 1 and $2/7$

Q27– Answer $5/20$ or a $1/4$

Q30 – 3 whole and $1/6$

Q32 – $5/24$ or $10/48$

Q33 – Answer $19/20$

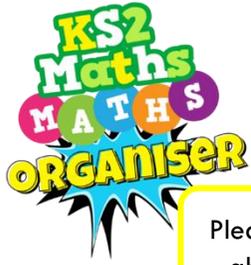
Q35 – Answer $13/8$ or 1 and $5/8$

Q35 – Answer $11/12$

Page 3

Q10 – Answer 1 and $1/4$ and 3 and $3/4$
OR 3 and $1/2$ and 1 and $1/2$

Q14 – Answer (1 and $1/2$ + 3 and $1/2$) x 2 = 10



FRACTION OF A QUANTITY



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Help Code : 009

Page 1

Q9 – Answer 24

Q15 – $12/30$ or $6/15$ or $2/5$

Q18 – Answer half of 50 boys is 18 boys, just under half of 100 girls is just under 50 girls which is more than 25 boys

Q20 – Answer £11.40

Q20– Answer 150 pages

Q26 – Answer $1/32$

Page 2

Q18 – Answer 90 grams

Q27 – $4/20$ or $1/5$

Q28 - $5/16$

Q33 – Answer $1/5$

Q34 – Answer 56

Q35 – 85.5

Page 3

Q9 – Answer Tom 4 and Nadia 28 and 4

Q18 – from top to bottom - cross tick cross tick

Q21 – Answer 80

Q24 2007 – Answer 1.4 and 1 and a $1/3$

Q24 2012 – Answer 24

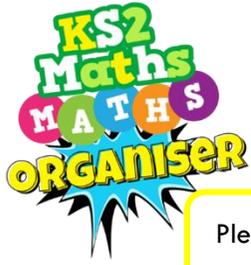
Page 4

Q13 2000 – Answer 630

Q13 2001 – Answer 270 degrees

Q17 – Answer 21-25, Tony and Tony is a quarter of 80 which is 20 snails. Gemma found half of 36 which is 18 snails.

Q24– Answer 64



BODMAS



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Help Code : 010

Page 1

Q13 – Answer 16

Q14 – Answer 56

Q19 – Answer 19

Q31 – Answer 12

Q36 – Answer 53

Page 2

Q1 – Answers 65, 8, 180

Q2 – Answer $5 \times 6 = 30$ or $5 \times 8 = 40$

Q12 – Answers $6 < 14$ $27 > 17$ $20 = 20$

Q14 - Answer $(1 \frac{1}{2} + 3 \frac{1}{2}) \times 2 = 10$

Q21 – Answer 5

Page 3

1 19

2 2

3 25

4 10

5 1

6 5

7 20

8 14

9 15

10 4

11 5

12 1

13 30

14 3

15 16

16 5

17 5

18 13

19 1

20 2

21 32

22 25

23 49

24 16

25 2

26 59

27 20

28 1000

29 8

30 4

31 7

32 4

33 91

34 271

35 900

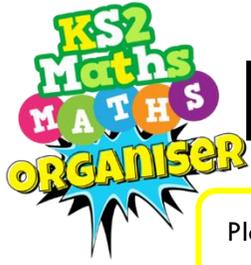
36 62

37 345

38 252

39 3

40 39



FRAC DEC PERC EQUIVALENCE



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Help Code : 011

Page 1

Q18 – 75%

Q20 – change both numbers into decimals or percentages and then compare. So $\frac{2}{5}$ is 40% and this is bigger 25% which is 0.25 so he is correct.

Q23 – $\frac{7}{12}$ or $\frac{14}{24}$

Page 2

Q17 1 and $\frac{1}{2}$, 1.4, 1.3, 1 and $\frac{3}{5}$ should be circled

Q7 – Answer 2 in the left box, 6 in the right box

Q13 – Answer $\frac{6}{12} < \frac{7}{16}$ or $\frac{5}{8} < \frac{3}{4}$

Page 3

Q20 – Answer $\frac{5}{8}$

Q22 2009 – Answer $\frac{2}{3}$ and $\frac{10}{15}$

Q22 2013 – Answer 0.5, $\frac{3}{5}$, 0.65, $\frac{2}{3}$

Q23 – Answer 0.34, 43%, 0.7, $\frac{3}{4}$

Page 4

Q18 – Answer top to bottom – cross, tick, cross, tick

Q20 – Answer $\frac{1}{8}$ and 80-100

Q21 – Answer 20, Jack won and 10 out of 40 is a quarter and the only person with a $\frac{1}{4}$ of the pie is Jack

Q22 – Answer 20% and 300g

Page 5

Q11 – Answer $0.25 = \frac{1}{4}$, $0.4 = \frac{2}{5}$, $0.2 = \frac{2}{10}$

Q21 – Answer 30-35%, No
EXPLANATION - Netball won half of 30 (15 matches) and football won half of 24 (12 matches)

Q22 – Answer $\frac{3}{5}$, $\frac{3}{4}$, $\frac{17}{20}$, $\frac{9}{10}$

Q24 – Answer $\frac{2}{5}$ is larger because $\frac{1}{3}$ is 33.3 recurring percent and $\frac{2}{5}$ is worth 40% so this is more

Page 6

Q8 – Answer 0.06 is less than $\frac{1}{2}$

$\frac{11}{20}$ is greater than $\frac{1}{2}$

0.21 is less than $\frac{1}{2}$

Q19 – Answer $\frac{6}{10}$, $\frac{12}{20}$ and $\frac{9}{15}$



MULTI-STEP PROBLEM SOLVING



Help Code : 012

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Page 1

Q4 Answer 1609 metres

Q8 Answer 1048 metres

Q13 Answer £1.39

Page 2

Q5 – Answer £302.27

Q12 – Find 6 lots of 24. Find 3 lots of 12. Divide 1st answer by 4 and you should get the second answer.

Q14 – Answer £0.90

Q16 – Answer 750

Q19 – Answer £1.68

Page 3

Q6 Answer – 1.07m

Q11 Answer - 2970

Q16 Answer – 3kg

Q20 Answer - £11.40

Page 4

Q2 Answer - 122

Q9 Answer – 29.25g

Q10 Answer - £0.25

Q16 Answer – Each pays £5.75 for the pizzas

Q16 Answer – 96 is Lara's number

Page 5

Q7 Answer – She could figure out how many children were in the class if she knew there were 9 girls and twice as many boys as girls. The statement about girls wearing glasses is irrelevant.

Q9 Answer – 25p

Q11 Answer – 30 days

Q12 Answer –
Any two numbers with a difference of 13.

Page 6

Q13 Answer – 119cm

Q19 Answer - £111.70



MONEY PROBLEMS



Page 1

Q5 – Answer £302.27

Q13 – Answer £1.39

Q19 – Answer £1.68

Page 2

Q8 – Answer 35p

Q9 – Answer 25p

Q14 – Answer £0.90

Q16 – Answer £5.75

Q19 – Answer £16,470

Q20 – Answer £11.40

Page 3

Q10 – Answer 25p or £0.25

Page 4

Q1 – Answer £0.27, 72p, £2.07, £2.70, £7.20

Q2 – Answer £2.50, £20.05, £20.50, £25

Q7 – Answer £47

Q8 – Answer £18.85

Q9 – Answer 2 coins = NO, 3 coins = YES, 4 coins = YES

Q16 – Answer £3.85

Page 5

Q4 – Answer 40p and 65p

Q12 2011 – Answer £3.05

Q12 2012 – Answer £2.63 and 300g

Page 6

Q9 – Answer £0.55

Q11 2008 – Answer £7.55 change and £22.40

Q11 2009 – Answer £4.79 and £2.35 change

Q12 – Answer 6 goes on the rollercoaster

Page 7

Q3 – Answer £2.45 juice and apple OR milk and melon two possible answers

Q6 - Answer £15

Q7 – Answer £4.10 and £3

Q18 – Answer £0.75

Page 8

Q8 – Answer 16 x 10p and 8 x 20p

Q10 – Answer £2.86 and £2.02

Q26 – Answer 20 children

Help Code :
013

Page 9

Q4 – Answer 80p and £2.25

Q11 – Answer £21.80

To use all square slabs, you would need 12 and 12 lots of £1.95 would be £23.40 so this is more than £21.80

Q18 – Answer 2bags of green, 3 bags of red apples
Nika could pay £1.80 for 20 red apples while Hassan pays £2.25 for only 18 apples

Page 10

Q6 – Answer 74p and 22p

Q7 – Answer 90p

Q14 – Answer £16.97 full price - £14.50
is a £2.47 saving

Page 11

Q15 – Answer 350g peanuts = £2.10, 250g of raisins



TIME



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Help Code : 014

Page 1

Q6 – Answer 14:01

Q7 – 5 years, 3 days, 12 weeks

Q9 – 5 hours

Page 2

Q3 Answer - 02:45 and 14:45

Q9 Answer - 46 and 10:44

Q14 Answer – 3600 seconds and 1440 minutes

Page 3

Q5 Answer - 7 hours and 24 minutes

Q6 Answer - 8:53

Page 4

Q1 Answer - 11:30pm

Q5 Answer - 48 hours, 24 days, 1 minute, 10 weeks

Q7 Answer - 7:55 am and 40 minutes

Q15 Answer - D, B, C, A

Page 5

Q1 Answer - 20 secs, 1 minute, 100 secs, 5 minutes

Q6 Answer – 1 hour 20 mins and 3:25pm

Q8 Answer - 10:45am and 1:15pm

Q15 Answer - 1 hour 25 mins or 85 mins and 12:10pm

Page 6

Q4 Answer - 30 minutes and 9:25am

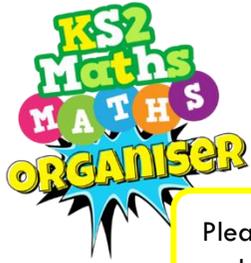
Q11 Answer - 9:20pm

Q23 Answer - 3 hours 35 minutes and 15:15

Page 7

Q10 Answer - 9:55 and 11:45

Q14 Answer - Teri and 5 seconds



PROPORTION + RATIO



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Help Code : 015

Page 1

Q11 – Answer 140 mins and 2 kg

Q14 – Answer 18 seeds

Q21 - Answer 12 and a $\frac{1}{2}$ cm

Page 2

Q16 – Answer 300ml of cream instead of 400ml means he needs three quarters of all the ingredients.

$\frac{3}{4}$ of 120g of chocolate = 90 grams

Q22 – Answer a : b is 1: 4

Page 3

Q15 Answer - £2.10 and 250 grams raisins

Q18 Answer – 21 songs

Q21 2001 Answer – 4cm

Q21 2007 Answer – 75 bottle tops

Page 1
200 children don't walk
50 more year 6's



INTERPRET CHARTS



Help Code : 016

Page 2
Q3 Answer – Paris and 3 degrees
Q4 Answer – February , April and £80
Q9 Answer – 46 minutes and 10:44

Page 3
Q6 Answer - 4 people, 5 km, Letter D
Q22 Answer - 20% and 300g

Page 4
Q3 Answer - 450 and 125
Q6 Answer - 2 and Seb, Kirsty , Jack
Q17 Answer - 4km and 4:15

Page 5
Q15 Answer – Yes but the 2 grey triangles together make a third of the whole diagram
Q16 Answer - 2, 4, and 50
Q19 Answer - 16km and 180 – 185 accepted

Page 6
Q3 Answer – (a) cheetah part (b) wildcat and leopard
Q10 Answer – 27 and 36-40 bar raised to level with 6
Q22 Answer – 1/5 or 1/6 and 600 books

Page 7
Q5 Answer - 15
Q9 Answer - 19 and 8
Q20 Answer - (a) 25,000, (b) 1996 or 1997, (c) 1963 or 1964

Page 8
Q5 Answer - £50 and £275
Q7 Answer - 5 and 35km
Q10 Answer - May October, 4 and 7

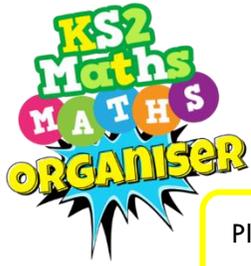
Page 9
Q3 Answer - 5/20 or 1/4
Q15 Answer - 105 seeds and 5 weeks

Q17 Answer - 6 because the 4 to 6 bar is 10 high and 2 children needs to be added to 7 children and 1 child to make it 10 children

Page 10
Q6 2002 Answer - £2.45 and CC
Q6 2003 Answer - £112 and £16
Q9 Answer - 5 and 7 degrees
Q14 Answer – Teri and 5 seconds

Page 11
Q10 Answer – 9 min call = 45p 6 min call = 20p
Q22 Answer - £17,500 Yes because the bar is double the size and doubling is an increase of 100%

Page 12
Q3 Answer - 12p and 85p
Q7 Answer - 107 and 53
Q10 Answer - 5 and 18



PIE CHARTS



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Help Code : 017

Page 1

Q18 Answer - half of 50 boys is 18 boys, just under half of 100 girls is just under 50 girls which is more than 25 boys

Q23 Answer $7/12$ or $14/24$ is not shaded

Page 2

Q21 Answer – 20% and 300g

Q22 Answer – 20%, Jack and $10/40$ simplifies to a quarter and Jack is the only person who takes up a quarter of the pie chart

Page 3

Q18 Answer - cross, tick, cross, tick

Q20 Answer - $1/8$ and approximately 40

Q22 Answer - $1/5$ and 600

Page 4

Q17 Answer - 21- 23 worms

Tony found more snails because although they are both half or 50% they are halves of different amounts.

Tony is half of 80 = 40 snails and

Gemma is half of 36 = 18 snails

Q21 Answer - 30 - 37% accepted

No because although they are both half or 50% they are halves of different amounts.

Netball is half of 30 = 15 games

and football is half of 24 = 12 games



PLACE VALUE + ROMAN



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Help Code : 018

Page 1

Q1 – Answer 10

Q2 – Answer 180

Q15 – Answer 2006

Page 2

Q2 – Answer E, B, C, D, A

Q3 – Answer 4 and then 6

Q5 – Answer 0.098, 0.607, 0.78, 4.003, 5.6

Q7 – Answer

fifty three thousand, one hundred and forty eight

Q11 – Answer 115

Q12 – Answer 0.993

Q16 – Answer 9,999,995 and 5,900,000

Page 3

Q1 2010 – Answer £0.27, 72p, £2.07, £2.70, £7.20

Q1 2011 – Answer 845

Q2 – Answer £2.50, £20.05, £20.50, £25

Q3 – Answer 288

Q14 – Answer 19.42

Q16 – Answer 0.8 and 0.67

Q17 – Answer 22.11

Page 4

Q1 – Answer 109, 190, 901, 910, 1091

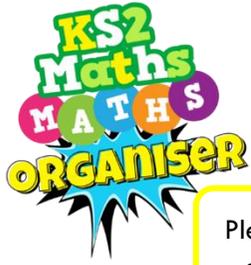
Q2 – Answer £0.65, 72p, £2.88, £5.40, £10

Q9 2002 – Answer 918 or 938

Q9 2005 – Answer 624, 642, 646, 662, 664

Q18 – Answer 10 and 100,000 or 100 and 10,000

Q22 – Answer £17,500



ROUNDING



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Help Code : 019

Page 1

- Q10 – Answer 84,520 84,500 85,000
- Q14 – Answer 120,000, 125,000, 124,500
- Q15 – Answer 20,900 2,100 200
- Q19 – Answer 12 or 13

Page 2 Extra Practice

- 2,167,900
- 2,168,000
- 2,170,000
- 2,200,000
- 2,000,000

- 5,650,400
- 5,650,000
- 5,650,000
- 5,700,000
- 6,000,000

Page 3

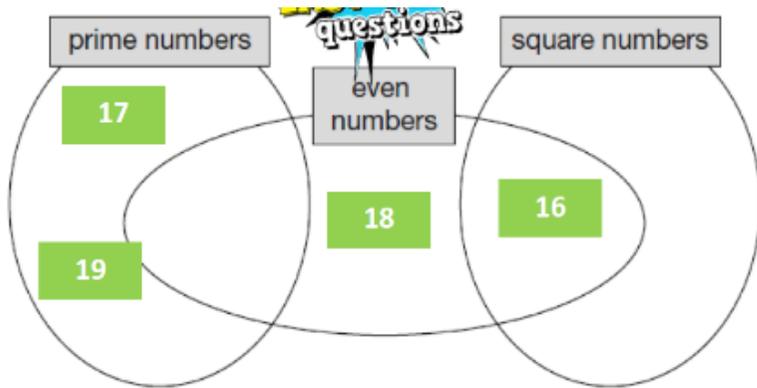
- Q2 – Answer 23 and 33
- Q4- Answer 84 and 76
- Q6- Answer £15
- Q8- Answer 451 and 110
- Q10- Answer 3200, 31,600 316,300
- Q11- Answer 5, 6, 4, 5

FACTORS, PRIMES, SQUARES

Help Code : 020

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Page 1 – Q5



Q8 – Answer 2, 6, 10 or 30

Q18 – Answer 9 + 13

Page 2

Q16 – Answers 27, 25 and 12

Q18 – Answers 60 and 90

Page 3

Q12 2001 – Answer
 prime not even 17
 not prime even 20
 not prime not even 9

Q12 2004 – Answer

	even	not even
a square number	4, 16, 36, 64,	1, 9, 25, 49, 81
not a square number	Any even <100 except those above	Any odd <100 except those above

Q19 - Answer 9 +36

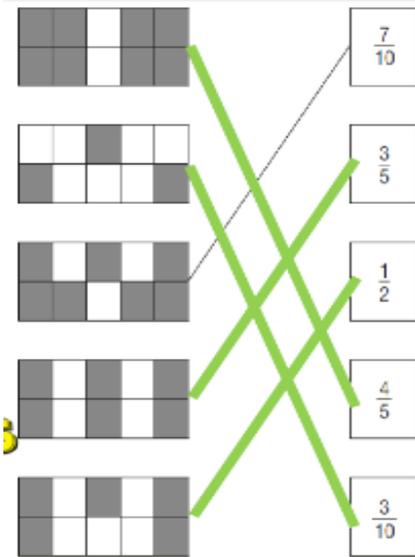
FRACTIONS OF SHAPES

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Help Code : 021

Page 1

Q4 –



Q18 – Answer half of 50 boys is 18 boys, just under half of 100 girls is just under 50 girls which is more than 25 boys

Q21 – Answer 20, Jack won and 10 out of 40 is a quarter and the only person with a $\frac{1}{4}$ of the pie is Jack

Q22 – $\frac{1}{5}$ or $\frac{1}{6}$ and 550-650

Page 2

Q8 – Answer join any dot to the dot 4 dots away around the outside

Page 4

Q9 – shade any 3 of the 12 triangles

Q2 – $\frac{1}{4}$

Q14 – top to bottom tick, cross, cross, tick

Q11 – $\frac{5}{9}$

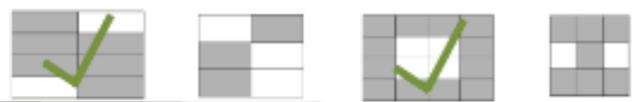
Q15– because if you put the two grey triangles together it would make a total of one whole grey square out of 3 squares. 1 out of 3 is a third.

Q18 – $\frac{13}{35}$

Q19 – $\frac{2}{6}$ or $\frac{1}{3}$, then $\frac{1}{9}$

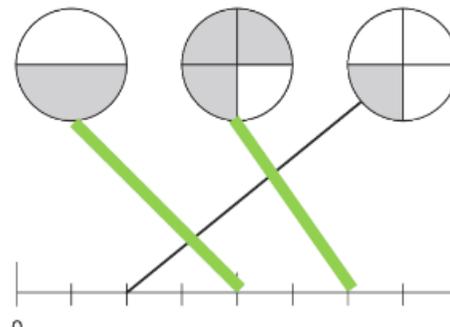
Q20– $\frac{1}{8}$ and 35-45

Q9



Page 3

Q9 –



Q10 – Answer

Diagram 1 – any 3 of the 4 triangles

Diagram 2 - any 9 of the 12 triangles

Diagram 3 – any 6 of the 8 sections



ANGLES + LINES



Help Code : 022

Page 1



Q13

Q16- Answer 540 degrees

Page 2

Q7 Answer – obtuse C , E acute A , D

Q9 Answer – 5.4 - 5.6cm accepted (answer may vary according to how large the sheet has been printed)

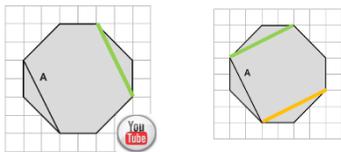
141-143 degrees

Q15 – Answer E is circled

Q17 Answer – a=160 and b=20

Page 3

Q13 Answer –

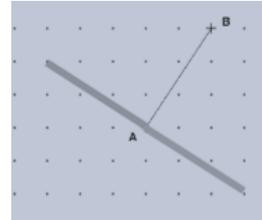


Q15 Answer – a =104 degrees

Page 4

Q18 Answer – number 5 and 270 degrees

Q19 Answer -



Q24 Answer – correct line lengths of 6cm, 8cm, 9.2cm and 75 degree angle

Page 5

Q6 Answer – B and D then C and E

Q17 Answer – A and C

Q21 Answer – Correct line lengths of 10cm, 7cm and 72 degree angle

Q25 Answer – obtuse angles are bigger than 90 so you could not have a triangle with 2 obtuse angles because this would already be bigger than 180 and you would still need a third angle, but triangle angles can't add up to more than 180 degrees

Page 6

Q4 Answer – 7.8-8cm (answer may vary depending on how large sheet has been photocopied)

Q13 Answer – 83mm

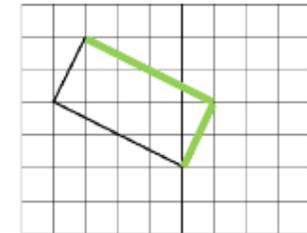
Q17 Answer – 118mm (answer may vary depending on how large sheet has been photocopied)

Q21 Answer – tick, cross, cross, tick

Q23 Answer – 55 degrees and 145 degrees

Page 7

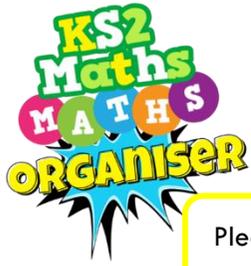
Q6 Answer –



Q13 Answer – 270 degrees

Q17 Answer – 96mm (answer may vary depending on how large sheet has been photocopied)

22 degrees



MEASUREMENT + UNITS



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Help Code : 023

Page 1

Q10 Answer – 68ml

Q11 Answer – 140 mins and 2 kg

Q16 Answer – 3kg

Q19 Answer - £111.70

Page 2

Q5 Answer – arrow pointing halfway between 160 and 170

Q11 Answer – 30 days

Q19 Answer - £16,470

Page 3

Q13 Answer – A = 5cm B = 15cm

Q17 Answer – 160cm

Q19 Answer – B , E , C , D , A

Q20 Answer – 300 grams

Page 4

Q11 Answer - £4.79 and £2.35

Q17 Answer - 150 grams

Q25 Answer - 39 cm

Page 5

Q4 Answer - 70cm

Q16 Answer - 360ml

Q19 Answer - 50 days

Q22 Answer - 250 ml

Page 6

Q12 Answer - 250 ml

Q13 Answer - 83 mm and 29 mm

Q15 Answer -
apples 1200g, grapes 0.25kg, ginger 30g

Q17 Answer – 96mm (answer may vary depending on how large the worksheet has been photocopied / printed)



PERIMETER



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Help Code : 024

Page 1

Top Left question Answer – 54cm

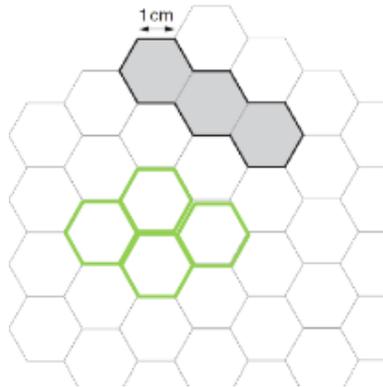
Top right question Answer – C and D

Bottom question Answer – 18cm

Page 2

Top Left question Answer – 34 cm and 70cm²

Top right question Answer –



Page 3

Q19 Answer – 54cm

Q20 Answer – 5cm and 2cm AND
3.5cm and 3.5cm

Q21 Answer - 4cm

Q25 Answer – 64cm

Q19 Bottom left question Answer – 50cm

Q15 Bottom right question Answer – 90cm

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Help Code : 025

Page 1

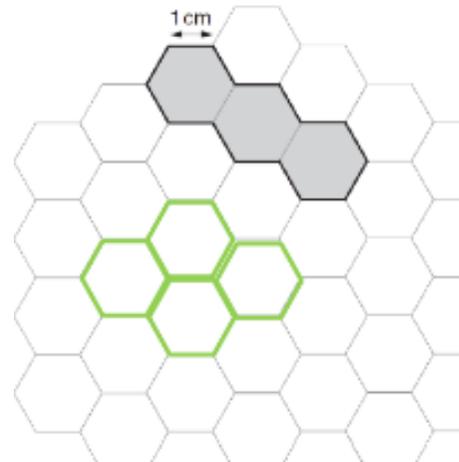
Q17 Answer – Triangle A

Q19 Answer – 3,076 metres

Q20 Answer -14 cm squared

Q12 Answer –D and E

Q14 Answer -



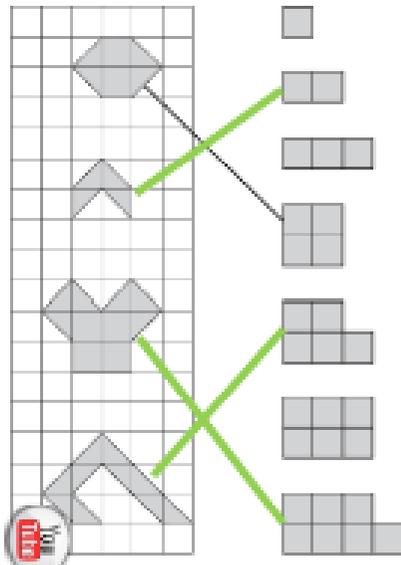
Page 2

Q13 Answer – C and 14cm

Q20 Answer – 34cm and 70cm squared

Page 3

Q5 Answer –



Page 4

Q25 Answer – a parallelogram with 5 cm as the base and 2 cm as the perpendicular height



MISSING LENGTHS FROM DIAGRAMS



Help Code : 026

Page 1

Q22 Answer – 7cm

Page 2

Q13 Answer – 119cm

Page 3

Q13 Answer – A = 5cm B = 15cm

Q24 Answer – 20cm

Q25 Answer – 39cm

Page 4

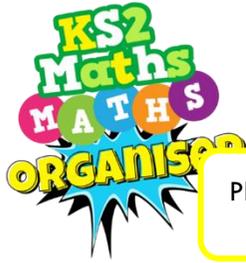
Q11 Answer - 42cm tall and 11 bricks

Q24 Answer - 42 cm

Page 5

Q16 Answer - width 22cm and height 17cm

Q19 Answer - 54 cm



WORKING BACKWARDS



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Help Code : 027

Page 1

Q11 – Answer 140 mins and 2 kg

Q19 – Answer 12 or 13

Page 2

Q1 Answer - 257

Q13 Answer - 15

Q16 Answer - 96

Page 3

Q1 Answer – SQUARE = 130 and TRIANGLE = 95

Q7 Answer – 7:55am and 40 mins

Q12 Answer – 1500, 150, 15000 and 15

Q23 Answer – 101

Page 4

Q1 Answer – 15 and 50

Q5 Answer – $18 + 3 = 21$, $42 + 3 = 45 \times 2 = 90$

Q6 2008 Answer – 650 and 1025

Q6 2010 Answer – square = 4, triangles are 24 and 40

Q6 2011 Answer – 63 mints

Q25 Answer – 23 cherries

Page 5

Q1 2001 Answer – 65, 8 and 180

Q1 2003 Answer – 65 and 2400

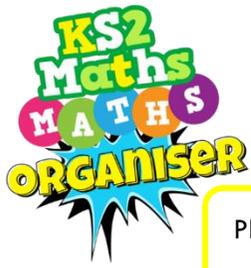
Q1 2004 Answer – 115, 30 and 69

Q2 Answer – 350 and 50

Q4 Answer – CIRCLE = 85, SQUARE = 70

Page 6

Q9 Answer – missing digits are 3 and 2
to say $342 \times 6 = 2052$



ALGEBRA + UNKNOWNNS



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Help Code : 028

Page 1

Q4 – Answer each triangle is 32, each circle is 18

Q13 – Answer 15

Q23 – Answer $b = 10 \times a - 1$

Page 2

Q22 – Answer 7 cm

Page 3

Q8 – Answer £2.55 and 25 cakes

Q16 – Answer 96

Page 4

Q15 2010 – Answer 30p

Q15 2013 – Answer Megan, Chen, Alfie, Nina

Q21 – Answer Mina 14, Kirsty 9, Seb 7

Q24 – Answer Cake 40p, biscuit 25p

Page 5

Q12 – Answer $2n + 9 = 53$ and $q = 48$

Q12 – Answer Leon and Sara any pair of numbers with a difference of 13

Q22 – Answer 15

Q23 – Answer 94, 95, 96



NEGATIVE NUMBERS



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Help Code : 029

Page 1

Q2 – Answer 9 degrees and -6 degrees

Q2 – Answer -12 and 2 on the number line

Q3 – Answer Paris and 3

Q15 – Answer 77 degrees F

Page 2

Q1 – Answer Wednesday and 6 degrees

Q8 – Answer 5 and -3

Q20 – Answer -60 and -140

Page 3

Q1 – Answer -7 and 13

Q2 – Answer 4, 9 and 14

Q3 – Answer G A E H

Q4 – Answer cross, cross, tick because if multiply a positive number by -5 then you get a negative answer, but if you multiply a negative by -5, you get a positive answers

Page 4

Q1 – Answer -75 and -200

Q2 – Answer -10 and 45

Q3 – Answer 8:35 to 8:45pm and 3 degrees

Q4 – Answer 18 degrees

Page 5

Q1 – Answer -80 and 60

Q2 – Answer 50

Q3 – Answer 9 and 7

Q4 – Answer -100 and 150

Page 6

Q1 – Answer 67

Q2 – Answer -1 and 1 OR -0.5 and 1.5

Q3 – Answer -35 and -80

Q4 – Answer -5 and 3 OR -4 and 4 OR -3 and 5

Q5 – Answer arrow pointing halfway between -1 and -2 and another halfway between 0.4 and 0.5

Page 7

Q1 – Answer 10 and -4

Q2 – Answer Yes because if you keep subtracting large multiple of 7 (like in the chunking method) then you will eventually get down to 4 and the next subtraction of 7 would take you to -3.

Page 8

Q1 – Answer 2, -1, 1



SEQUENCES



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Help Code : 030

Page 1

Q1 Answer – 68, 110, 152

Q21 Answer – $3/8$ and 2 whole and $7/8$

Q23 Answer – $b = 10 \times a - 1$

Page 2

Q5 Answer – 840, 905, 1000 circled

Q6 Answer – 650, 1025

Q9 Answer – 650 and 900 circled

Q18 Answer - left triangle = 24, right triangle = 40, square = 4

Q23 Answer – No because 777 would be in the 7 timestable but the numbers given are not in the 7 timestable, even though they go up in 7s.

Page 3

Q10 Answer – 11 and 16, shape 35 would be a circle because it is in the 5 timestable and the circle numbers are in the 5 timestable.

Q15 Answer – 72 and 75 circled. 1003 would not be circled because the numbers given are in the 3 timestable. 999 would be in the 3 timestable, so the next one would be 1002 and the next one 1005 so 1003 would be missed out.

Q17 Answer - 10.8 and 17.3

Page 4

Q20 2000 Answer – No because 2000 would be in the 40 timestable, then 2040, then 2080, then 2120, then 2160. So 2140 would be missed out

Q20 2002 Answer - -60 and -140

Q23 Answer - circles subtract 1, divide by 2 gives squares

So 25 circles would be 12 squares



READING SCALES



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Help Code : 031

Page 1

Q1 Answer – 499 and 555

Q5 Answer – Arrow between 160 and 170

Q15 Answer – 77 degrees Fahrenheit

Page 2

Bar chart question 200 don't walk and 50 more Y6

Q2 Answer - -12 and 2

Q12 Answer - 1.75

Page 3

Q14 Answer – Arrow pointing to 640grams (2 divisions after 600 on the scale as each division is worth 20.

Q16 Answer – 350ml

Arrow pointing to 400ml – 2 divisions after 300 on the scale as each division is worth 50ml.

Page 4

Q13 Answer - 18 degrees

Q14 Answer – tin can shortly after 1800.

Computer shortly after 1940, 2 divisions after 1900 as each division is worth 20.

Q22 Answer – 250 ml

Q23 Answer - A = -80 and B = 60

Page 5

Q2 Answer – Arrow pointing to 350g. Two divisions after 300 as each division is worth 25.

Q8 Answer - 5 degrees and -3 degrees

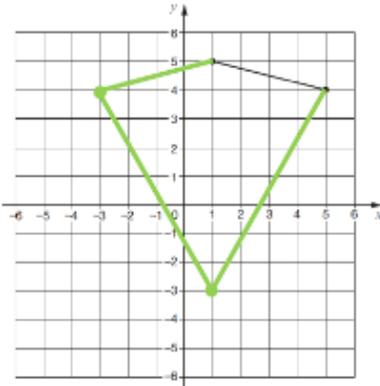
Q16 Answer - 360ml

COORDINATES

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Help Code : 032

Page 1



Page 5

Q20 Answer – D is (5 , 2)

Q23 Answer – C is (10 , 9)

Page 6

Q17 Answer – A is (40 , 27)

Q20 Answer – M is (15 , 40) and C is (20 , 0)

Page 7

Q8 Answer – A is (7 , 13) and B is (17 , 13)

Q22 Answer – A is (11 , 9) and B is (15 , 3)

Shaded square question Answer – A = (3 , 11)

Page 8

Two squares question Answer –
B is (0 , 10) C is (10 , 20)

Triangle question Answer – (6 , 28)

Page 2

LEFT Q20 Answer – A = (12 , 0) B = (9 , -8)

RIGHT Q20 Answer – (-10 , -40)

Page 3

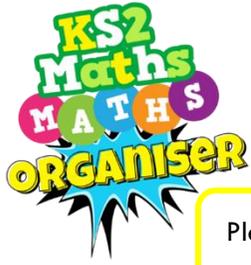
Q13 Answer – (2 , 4)

Q23 Answer – (13 , 15)

Page 4

Q19 Answer – (50,70) and (-30 , -30) both outside
(60 , -30) and (-10 , 50) both inside

Q23 Answer – D is (-10 , -4) E is (0 , 8)



SHAPE NAMES



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Help Code : 033

Page 1

Q11 – Answer 32 cm

Q12 – Answer both pyramids should be ticked



Top Right Answer

Hexagons are B and F

Pentagons are C , D and G

Page 2

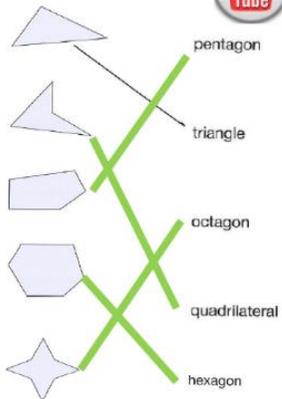
Top Left Answer

Bottom Answer

Hexagons are B and D

Right angled Shapes are C and E

One has been done for you.

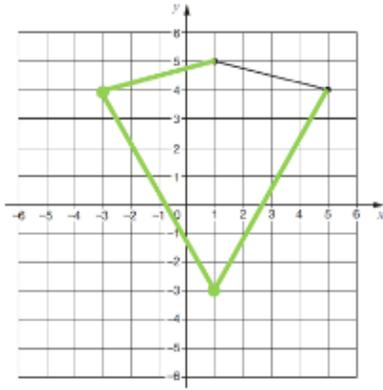


QUADRILATERALS

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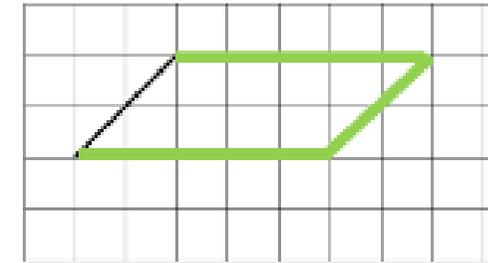
Help Code : 034

Page 1



Q13 Answer – Lara chose a rhombus
Stefan chose a kite

Q25 Answer -



Page 2

Q15 Answer –



Page 4

Q12 Answer – D and E

Q15 Answer –
LEFT SHAPE – square
TOP RIGHT SHAPE – rectangle
BOTTOM RIGHT SHAPE – kite

Q17 Answer - A and C

Q18 Answer – Kite and Square should be ticked as they have diagonals which cross at right angles

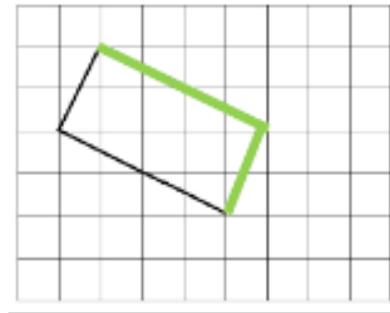
Page 3

Q5 Answer – A, D, E

Q7 Answer - No because a trapezium or kite is not a square because it does not have 4 equal sides or 4 equal angles. So it is a four sided shape but is not a square.

Page 5

Q6 Answer –



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Help Code : 035

Page 1

Q12- Answer both pyramids ticked

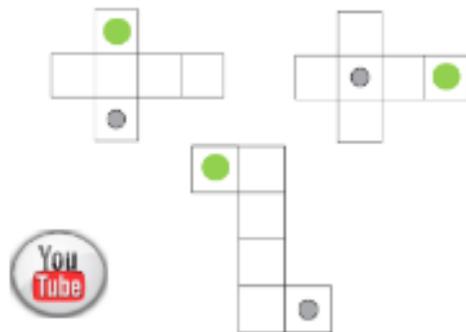
Q24 – Answer 9cm

Page 2

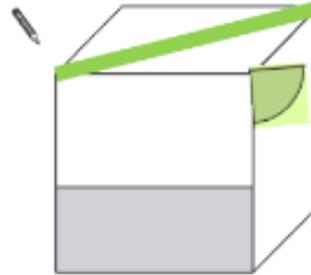
Q10 Answer – C has different volume of 18. All the others have a volume of 12 cm cubed

Page 3

Q5 Answer –



Q22 Answer -



Page 4

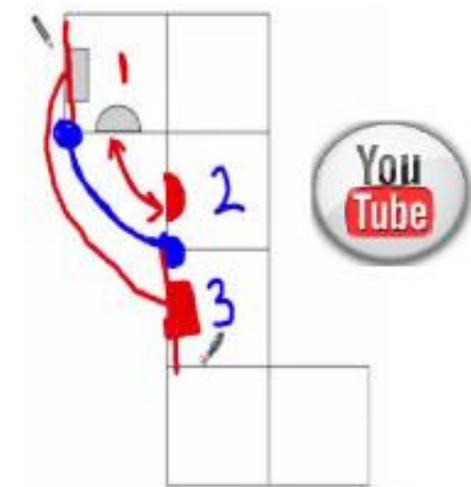
Q13 Answer – The shape in the middle should be circled

Q16 Answer – Top left and bottom right shapes TICKED

Top right and bottom left shapes CROSSED

Q17 Answer – 14 cubes

Q22 Answer -



Q20 Answer - crosses = 8 circles = 14

SORTING DIAGRAMS

Page 2

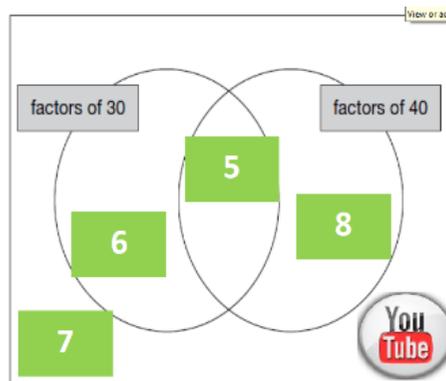
Q10

247	990
25, 49	7002

Q12

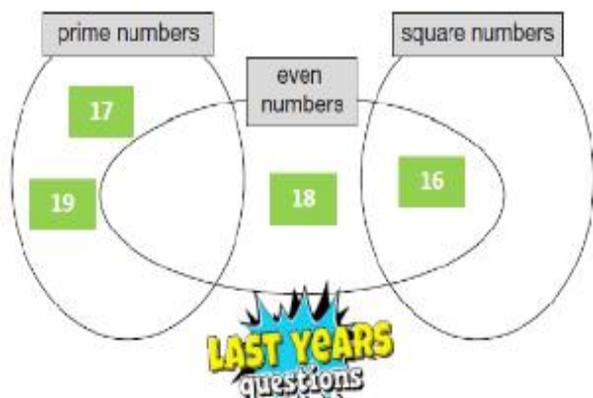
4, 16, 36, 64,	1, 9, 25, 49, 81
Any even < 100 except those above	Any odd < 100 except those above

Q13



Page 1

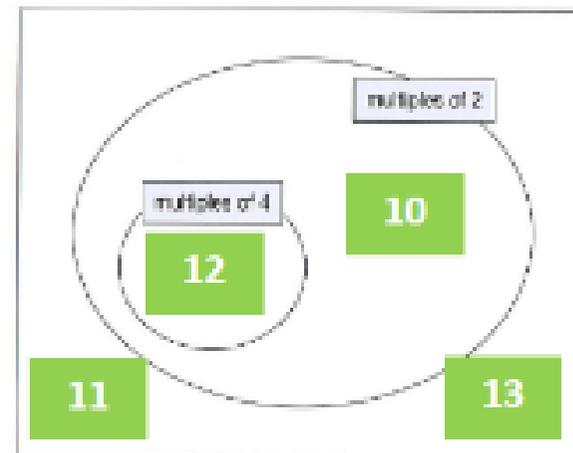
Q1



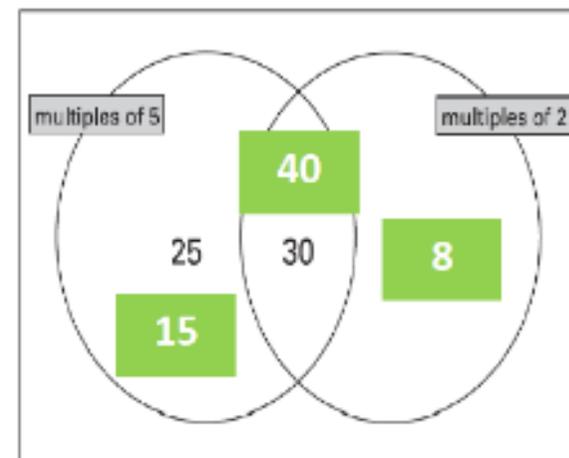
Q5

30	3, 6, 9, 12, 18, 21, 24, 27, 33, 36
5, 10, 20, 25, 35, 40, 50, 55, 65, etc	1, 2, 4, 7, 8, 11, 13, 14, 16, 17, 19

Q16



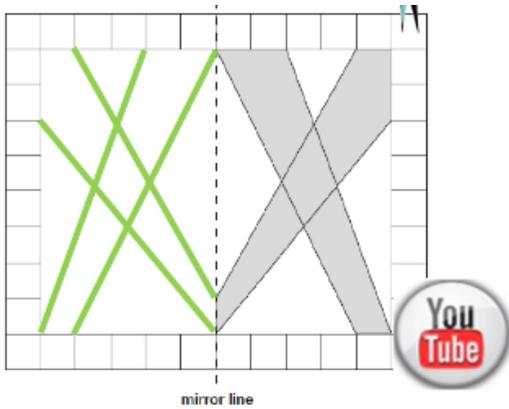
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SYMMETRY + REFLECTION

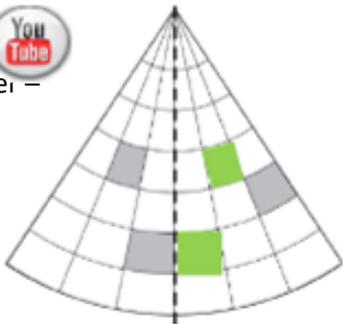
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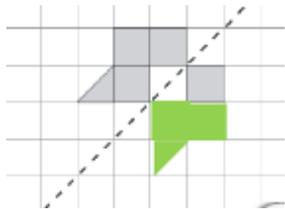


Page 2

Q2 Answer -



Q10 2011 Answer -

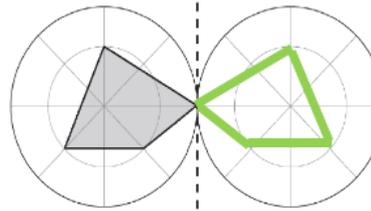


Q10 2013 Answer - A and B

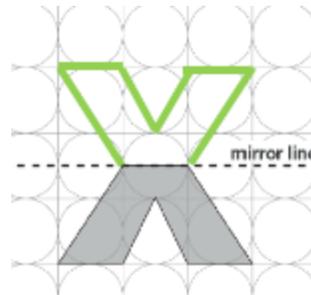
Q13 Answer - longest perimeter C
one line of symmetry D

Page 3

Q4 Answer -



Q8 Answer -

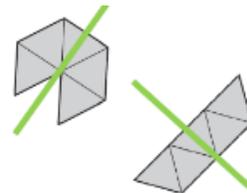


Q12 Answer - Top three TICKED, Bottom two CROSSED

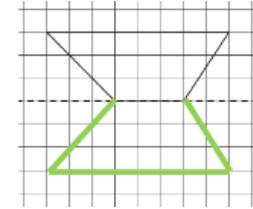
Q16 Answer - Both LEFT shapes ticked,
Both RIGHT shapes crossed

Page 4

Q2 Answer -

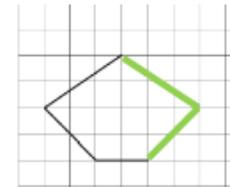


Q3 Answer -



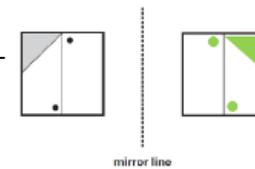
Q7 Answer - shape A and E

Q13 Answer -

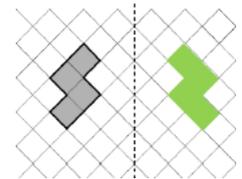


Page 5

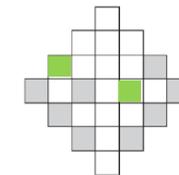
Q3 Answer -



Q4 Answer -



Q7 Answer -



Q9 Answer - shape A , C and E



TRANSLATING SHAPES



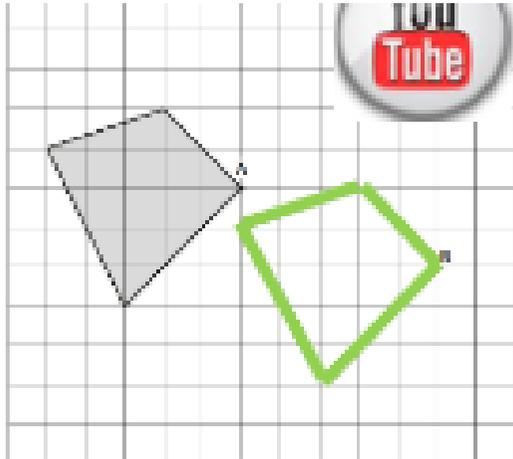
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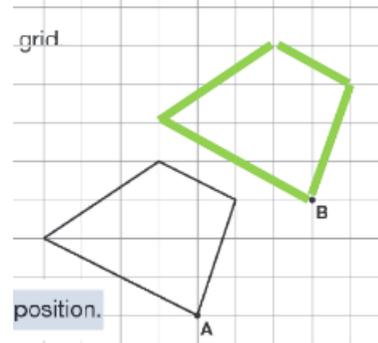
Q7 Answer – coordinates at (2,1) (2,4) and (5,1)

Q8 Answer –



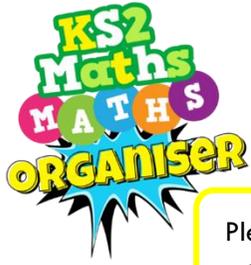
Q12 Answer - 6 squares RIGHT and 5 squares DOWN

Page 2 Q3 Answer -



Q24 Answer -

Shape C



ROTATION



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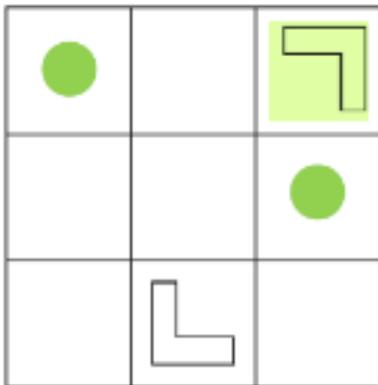
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Page 1

Q3 Answer - third shape should be ticked

Q16 Answer – Somersaults 540 degrees

Q16 Answer -



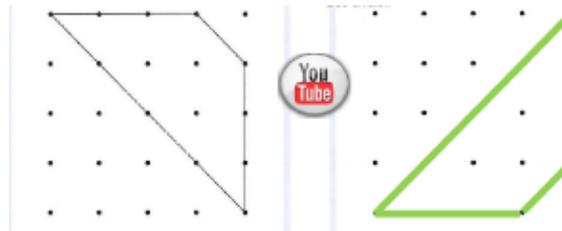
Page 2

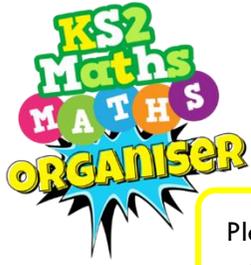
Q3 2000 Answer -

Middle shape on the top row should be circled

Q3 2009 Answer – shape C

Page 3





THE MEAN



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Page 1

Q17 Answer –

Total heights = 1015cm shared by 7 children

$$1015 \div 7 = 145 \text{ cm}$$



LINE GRAPHS



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Page 1

Q4 – Answer 7 degrees and -2 degrees

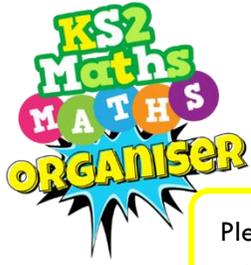
Page 2

Cycle ride question

- Half the children still cycling at 16km
- 180 – 185 children

Phone calls question

- 9 minute call = 45p
- 6 minute call = 20p



PICTOGRAMS



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Litter question

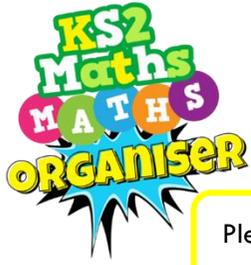
Answer - 450 bottles and
125 more bags than cans

Charity question

Answer - £50 and £275

Page 2

Q10 Answer - 5 sleeping bags and 18 tents



USE EACH NUMBER ONCE



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Page 1

Left top

$$2 + 3 + 7 = 12$$

$$3 + 8 + 1 = 12$$

$$6 + 2 + 4 = 12$$

Left Bottom

19.42 is closest to 20

Right top – several answers

$$150 + 400 + 450 = 1000$$

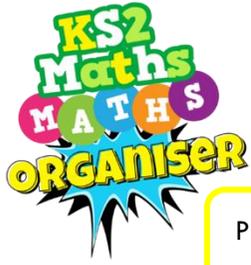
$$350 + 200 + 450 = 1000$$

$$450 + 200 + 350 = 1000$$

$$450 + 400 + 150 = 1000$$

Right bottom

$$5 \times 4, \quad 12 \div 3, \quad 9 + 5$$



COINS



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Page 1

Q8 Her change is 95p, so she must have paid £1.05 for all 3 bags of nuts. Therefore 1 bag is £1.05 divided by 3 which is 35p.

Page 2

Q4 Answer various correct answers

e.g. 50p, 50p, 50p, 5p, 5p

50p, 50p, 20p, 20p, 20p

£1, 20P, 20P, 10P, 10P

Q7 Answer 90P LEFT

Q8 Answer 16 and 8

Q9 Answer 2 coins = NO, 3 coins = YES, 4 coins = YES



COMBINATIONS



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Page 1

Three discs Answer - 4

Q3 Answer 96×5 or 05×6

Q9 Answer - 624, 642, 646, 662, 664

Q18 - Answer $9 + 13$

Page 2

Top Right Answer iced cake - 30p

Q17 Answer – different possibilities for this...

$$18 + 10 + 12 = 40$$

$$18 + 6 + 16 = 40$$

$$18 + 14 + 8 = 40$$

$$16 + 10 + 14 = 40$$

Q21 – Answer BC is 4cm

Q26 – Answer 20 children

Page 3

Q18 Answer – 2 bags green apples, 3 bags red apples



EXPLAIN by COUNTER-EXAMPLE



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Page 1

“I added 3 odd numbers and my answer was 50” – she cannot be correct because the first two odd numbers you add would give an even total, so when you add another odd on top of that you are doing EVEN + ODD and this would always give an ODD answer. 50 is even she could not possibly do it.

“All numbers that end in a 4 are multiples of 4” – numbers that end in 4 are 04, 14, 24, 34, 44, 54, 64, 74, 84. Some of these are in the 4 timestable so multiples of 4 such as 4, 24, 44 but others are not in the 4 timestable so are not multiples of 4 e.g. 14, 34, 54, 74. So she cannot say ALL numbers.

“All prime numbers are ODD” – false because 2 is the only even prime number. It is prime because it has exactly 2 different factors of 1 and itself.

“All quadrilaterals with parallel lines have at least one line of symmetry” – false – a square, rectangle, rhombus, kite and isosceles trapeziums have 1 line of symmetry. Parallelograms have no lines of symmetry and neither do non-isosceles trapeziums.

“All 3D solids have at least one VERTEX” – false because neither a sphere nor a cylinder have any corners (vertices)

“All numbers have at least 2 different factors” – prime numbers have 2 factors, square numbers have 3 factors and other composite numbers have more than that. But 1 only has 1 factor – the number 1. It is not prime because a prime number has to have exactly 2 different factors. You can't say 1×1 is 2 factors because you are using the same factor twice, it is not different.



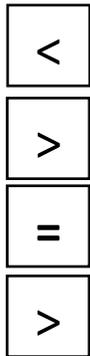
INEQUALITY SIGNS

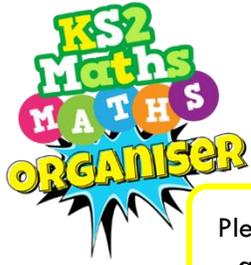


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COMPARING



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Page 1

Left top answer 996 because it is only 4 away from 1000 but 1006 is 6 away. Smaller difference means it is closer

Left Middle answer 109, 190, 901, 910, 1091

Left bottom answer 960

Right top answer 1 battery = 3 pencil sharpeners and 200 paperclips

Right bottom answer $\frac{2}{5}$ because $\frac{1}{3}$ is 33.3 recurring percent but $\frac{2}{5}$ is 40%.
Or use a common denominator so $\frac{1}{3}$ is same as $\frac{5}{15}$ but $\frac{2}{5}$ is same as $\frac{6}{15}$