Name: Answers 5-a-day Platinum

1st February

$\frac{3}{8}$ *of* 45,400

$$8\overline{)45400} = 5675$$

$$5675 \times 3 = 17025$$

17025

$1\frac{1}{3} + \frac{3}{4}$

$\frac{4}{3} + \frac{3}{4}$

$= \frac{16+9}{12} = \frac{25}{12}$

$\frac{25}{12} = 2\frac{1}{12}$

Daisy is posting party invitations.

She has posted $\frac{3}{5}$ of the invitations.

Daisy has 30 invitations left to post.

How many invitations is Daisy sending out altogether?

30 is $\frac{2}{5}$

15 is $\frac{1}{5}$

75 in total

The time taken for 4 children to complete a puzzle are:

12 minutes 600 seconds (10 min)

half an hour (30 min) 25 minutes

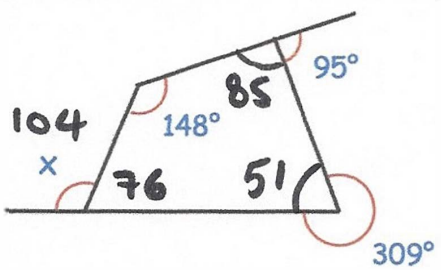
Work out the mean time taken

12 + 10 + 30 + 25

= 77

77 ÷ 4 = 19.25 minutes

(19 M 15 SEC)



Find the size of angle x

148 + 85 + 51 = 284

360 - 284 = 76

180 - 76 = 104

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

2nd February

$40 \div 2^2 + 12 \div 2$

$40 \div 4 + 6$

$= 10 + 6$

16

$3{,}254 \times 27$

$$\begin{array}{r} 3254 \\ \times\ \ 27 \\ \hline 22778 \\ 65080 \\ \hline 87858 \\ {\scriptstyle 1} \end{array}$$

87858

Billy thinks of a number that is not zero.

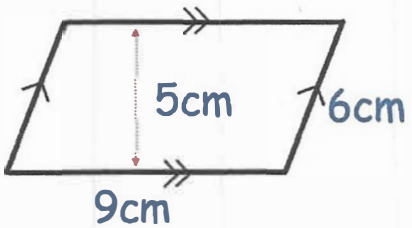
He multiples his number by -3

Tick the correct box

- The answer is positive ☐
- The answer is negative ☐
- The answer could be positiver or negative ☑

Find the area of the parallelogram

$5 \times 9 = 45\text{cm}^2$



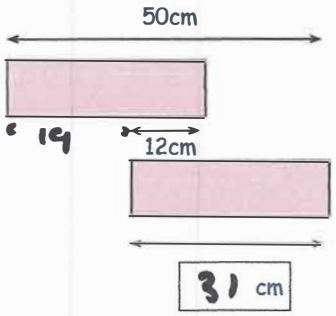
Shown are two identical rectangles

Find the length of one rectangle

$50 - 12 = 38$

$38 \div 2 = 19$

$19 + 12 = 31$



© Corbettmaths 2017

Name: Answers 5-a-day Platinum

3rd February

$\frac{4}{9} \div 4$

$\frac{1}{9}$

$\frac{3}{5} \times 340$

$340 \div 5 = 68$

$68 \times 3 =$

204

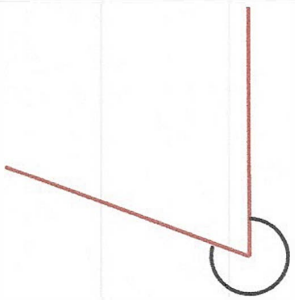
Write these numbers in order of size
Starting with the smallest

0.13 $\frac{3}{20}$ 12% $\frac{1}{10}$ 0.09

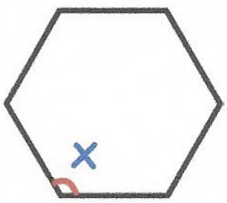
13% 15% 10% 9%

0.09, $\frac{1}{10}$, 12%, 0.13, $\frac{3}{20}$

Measure the size of this angle



Shown is a regular hexagon



Find the size of angle x

$720 \div 6$

$= 120°$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

4th February

$1\frac{2}{3} - \frac{5}{6}$

$\frac{5}{3} - \frac{5}{6}$

$= \frac{10-5}{6} =$

$\frac{5}{6}$

3.2×202

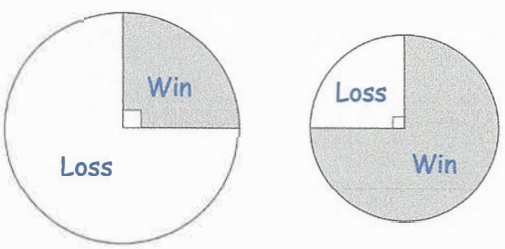
202
× 32
404
6060
6464

646.4

Hannah and Rory play tennis for their school.

The pie charts show information about their results

James says that Hannah has won more matches than Rory.



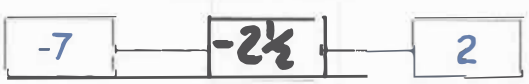
Hannah Rory

Explain how James might be correct

If Hannah has played more games

Find the missing number

halfway between



© Corbettmaths 2017

Name: Answers 5-a-day Platinum

5th February

$\frac{2}{5} \times \frac{1}{3}$

$\frac{2 \times 1}{5 \times 3} =$

$\frac{2}{15}$

$100 - 15 \times 5$

$15 \times 5 = 75$

$100 - 75 =$

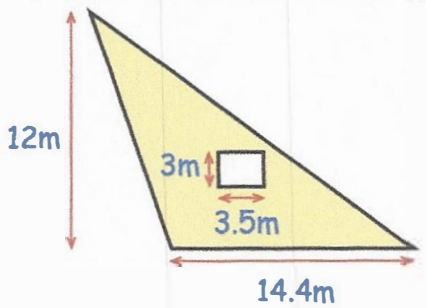
25

Work out the shaded area

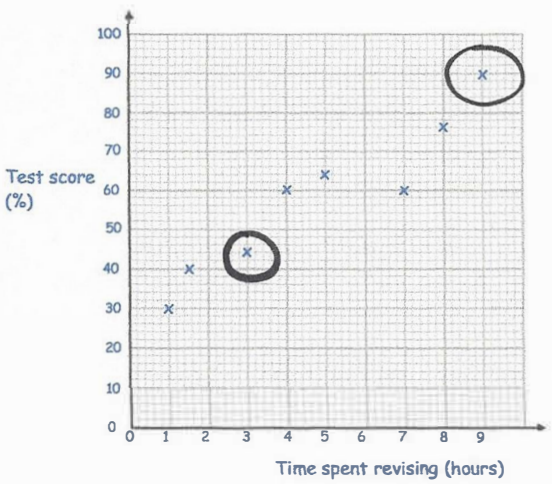
Triangle $= 12 \times 14.4 \div 2$
$= 86.4 m^2$

Rectangle $3 \times 3.5 = 10.5 m^2$

$86.4 - 10.5 = 75.6 m^2$



This graph shows information about the time spent revising for a test and the test result for 8 students



What was the highest test score?

90

Daisy spent 3 hours revising.

What was her test score?

44

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

6th February

$$14 \overline{)882} = 63$$

63

$$\begin{array}{r} 4156 \\ \times \quad 23 \\ \hline 12468 \\ 83120 \\ \hline 95588 \end{array}$$

95588

Find the value of w when c = 17

$$w = 200 - 5c$$

$5 \times 17 = 85$

$w = 200 - 85$

$= 115$

A website sells keyrings for £1.25 each.

When buying keyrings, you need to pay postage and packaging as well.
Here are the prices for postage and packaging

Postage and Packaging	
1 to 10 keyrings	£2.50
11 to 20 keyrings	£5.50
21 to 30 keyrings	£7.50
31 to 100 keyrings	Free

Owen has £40 and buys as many keyrings as possible.

How many keyrings does Owen buy?

£40 ÷ 1.25 = 32

He can buy 32 and pay no p & p.

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

7th February

$45\% \text{ of } 1{,}300$

10% = 130
40% = 520 +
5% = 65

585

$\frac{3}{4} + \frac{1}{5}$

$\frac{15 + 4}{20}$

$\frac{19}{20}$

25% of the children in a school have a dog.

10% of the children who have a dog also have a cat.

There are 12 children who have both a dog and a cat.

How many children go to the school?

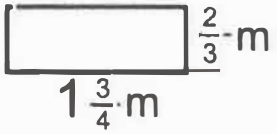
10% + 25% = 2.5%
2.5% = 12 children
25% = 120 children
∴ 480 children

Pattern 1	Pattern 2	Pattern 3
1	5	9
4×1−3	4×2−3	4×3−3

Which pattern uses 77 dots?

4n − 3 = 77
4n = 80
n = 20

Jessica wants to attach fairy lights around the top of her wardrobe. She has 4m of ribbon



$1\frac{3}{4} = \frac{7}{4}$

How much more ribbon does she need?

$\frac{7}{4} + \frac{2}{3} = \frac{21+8}{12} = \frac{29}{12}$
$\times 2 = \frac{29}{6} = 4\frac{5}{6}$
She needs $\frac{5}{6}$ Metre

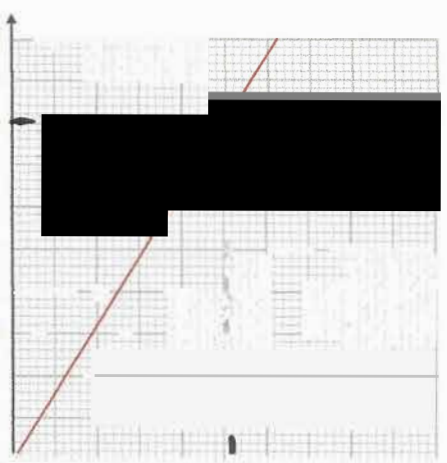
© Corbettmaths 2017

Name: Answers

5-a-day

25542

6



Name: Answers Primary 5-a-day Platinum

10th February

0.7×60

$7 \times 60 = 420$

$0.7 \times 60 = 42$

42

$80\% \times 1{,}800$

$10\% = 180$

$180 \times 8 = 1440$

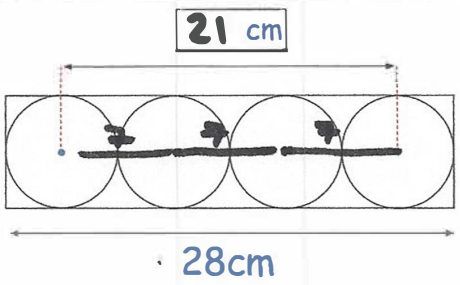
1440

Four identical circles fit inside a rectangle.

Find the distance between the centres of the first and fourth circle.

$28 \div 4 = 7$

$7 \times 3 = 21$



A 2p coin has a mass of 7 grams.
Find the total mass of £80 worth of 2p coins.

Give your answer in kilograms

£1 = 50 2p coins

£8 = 400 2p coins

4000 x 7 = 28000g

28kg

This sequence increases by an equal amount each time.

Find the three missing numbers

$30 - 13 = 17$

$17 \div 4 = 4\frac{1}{4}$

13 $17\frac{1}{4}$ $21\frac{1}{2}$ $25\frac{3}{4}$ 30

$17\frac{1}{4}$ $21\frac{1}{2}$ $25\frac{3}{4}$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

11th February

$19 - 2 \times 8$

19 − 16 =

3

$1\frac{1}{2} \times 68$

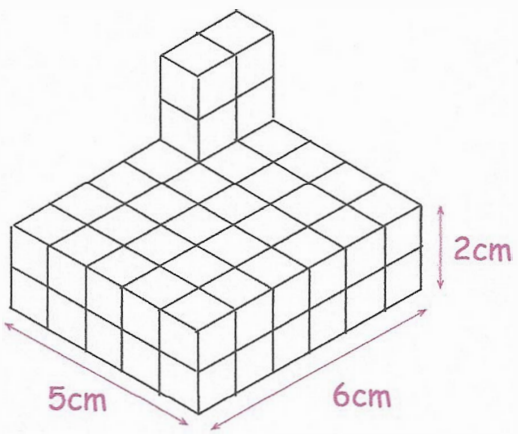
1 × 68 = 68

½ × 68 = 34 +

102

102

This shape is made from centimetre cubes.



How many more centimetre cubes are needed to make it into a solid cuboid 5cm wide, 6cm long and 5cm tall?

each layer needs
5 × 6 = 30

required 3 more layers
= 90

− 4 = 86 cubes

A car travels at 60 miles per hour for 3 hours.

How far does the car travel?

distance = speed × time

60 × 3 = 180 miles

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

12th February

30% *of* $8{,}000$

10% = 800

30% = 800 × 3 =

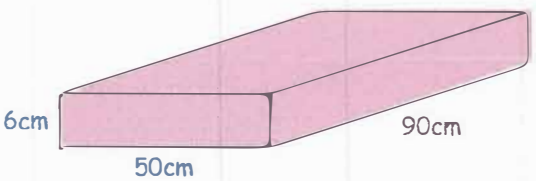
2400

$1{,}326 \div 26$

$$26\overline{)1326}\quad 51$$

51

Work out the volume of the cuboid



6 × 50 = 300

300 × 90 = 27000 cm^3

Work out the value of w

$$4w - 3 = w + 24$$

3w − 3 = 24

3w = 27

w = 9

Convert 4 kilometres into millimetres

4KM = 4000M

= 400,000 CM

= 4,000,000 MM

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

13th February

2.53×6

$$\begin{array}{r} 2.53 \\ \times \quad 6 \\ \hline 15.18 \\ {\scriptstyle 3\ 1} \end{array}$$

15.18

$4.32 \div 3$

$$3\overline{)4.12} \quad 1.44$$

1.44

Write down the value of the 8 in the answer to

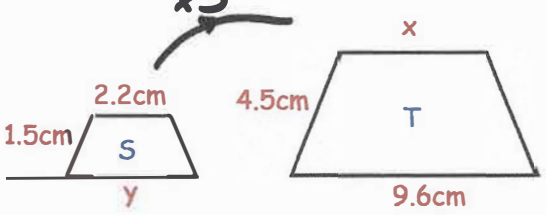
$1{,}470 \times 2{,}000 = 2{,}940{,}000$

$$\begin{array}{r} 147 \\ \times \quad 2 \\ \hline 294 \end{array}$$

Nine hundred thousand

Trapezium S and trapezium T are similar

$4.5 \div 1.5 = 3$



Find the size of x

$x = 2.2 \times 3 = 6.6\text{ cm}$

Find the size of y

$y = 9.6 \div 3 = 3.2\text{cm}$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

14th February

$\frac{1}{8} \times \frac{1}{2}$

$\frac{1 \times 1}{8 \times 2} =$

$\frac{1}{16}$

$15 \overline{)9705}$ = 647

647

Find the value of m when h = 32

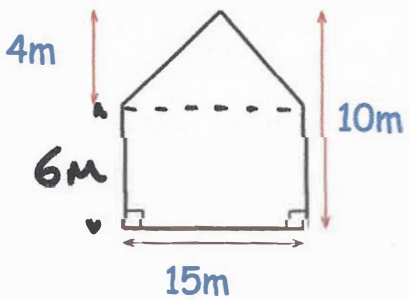
$$h = 35 - 6m$$

$32 = 35 - 6M$

$6M = 3$

$M = \frac{3}{6} = \frac{1}{2}$ or 0.5

Jack is painting the side of his house.
He has 8 litres of paint.
Each litre covers $16m^2$
Does Jack have enough paint?



$6 \times 15 = 90$

$15 \times 4 \div 2 = 30$

total area = $120M^2$

$8 \times 16 = 128M^2$

Yes, he has $8M^2$ extra

$\times \begin{array}{r} 16 \\ 8 \\ \hline 128 \end{array}$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

15th February

151,985 – 72,304

$$\begin{array}{r} {}^{4}\cancel{5}1985 \\ 72304 \\ \hline 79681 \end{array} -$$

$\boxed{79681}$

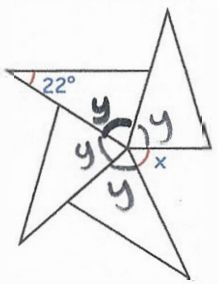
95% of 580

10% = 58

5% = 29

95% = 580 - 29 =

$\boxed{551}$



Shown are four identical isosceles triangles. Find x

$y = \frac{180 - 22}{2} = 79$

$4 \times 79 = 316$

$x = 360 - 316 = \underline{44°}$

Write in the missing number so that the mean of the five cards is 10.

13	5	18	2	12

Mean = 10

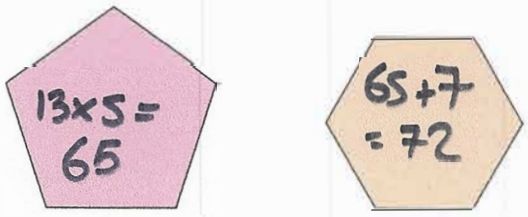
So total = 50

13 + 5 + 18 + 2 = 38

50 - 38 = 12

The perimeter of the regular hexagon is 7cm greater than the perimeter of the regular pentagon.

Find a $72 \div 6 = \underline{12}$



13cm a

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

16th February

$16 \times 1\frac{3}{4}$

$\frac{3}{4}$ of 16 = 12

16 + 12 =

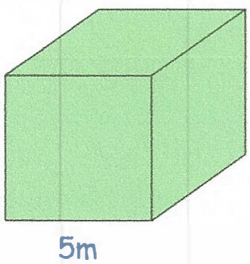
28

$$\begin{array}{r} 744 \\ \times \quad 61 \\ \hline 744 \\ 44640 \\ \hline 45384 \end{array}$$

45384

Work out the volume of this cube.

$5 \times 5 \times 5 = 125 cm^3$



Write 1850 in Roman numerals

MDCCCL

B is 7 times heavier than A
B is 15kg heavier than A

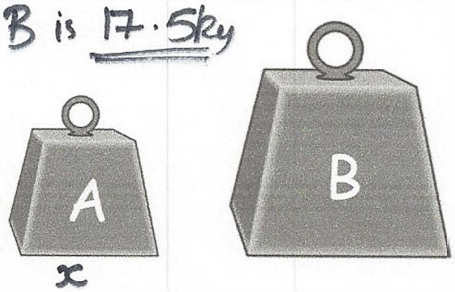
How heavy is B?

$x \times 7 = x + 15$

$7x = x + 15$

$6x = 15 \quad x = 2.5$

so B is 17.5kg



© Corbettmaths 2017

Name: Answers 5-a-day Platinum

17th February

$2\frac{2}{3} - \frac{5}{6}$

$2\frac{4}{6} = \frac{16}{6}$

$\frac{16}{6} - \frac{5}{6} = \frac{11}{6}$ (or $1\frac{5}{6}$)

$\frac{11}{6}$

$121 \div 5$

$5\overline{)121.0}$ = 24.2

24.2

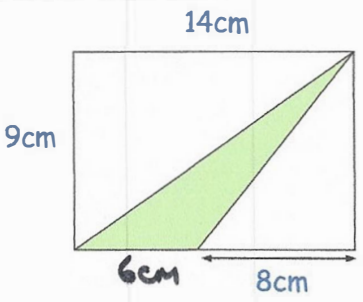
Find three different prime numbers that have a sum of 40

Primes:
2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, ...

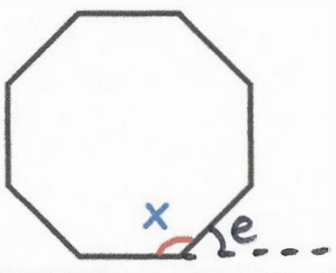
2 7 31

Find the shaded area

Triangle = $6 \times 9 \div 2 = 27cm^2$



Shown is a regular octagon



Find the size of angle x

$e = 360 \div 8 = 45$

$x = 180 - 45 = 135°$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

18th February

235×45

$$\begin{array}{r} 235 \\ \times\ 45 \\ \hline 1175 \\ 9400 \\ \hline 10575 \end{array}$$

10575

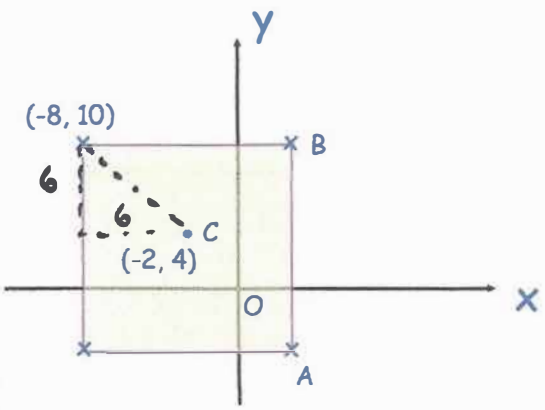
$8^2 + 6^3$

$8^2 = 64$, $6^3 = 36 \times 6 = 216$

$64 + 216 = 280$

280

Shown is a square.
C is the centre of the square.



Find the coordinates of A

(4, −2)

B

(4, 10)

Megan feeds her cat $\frac{2}{5}$ of a can of cat food each day.

How many cans of cat food are eaten each fortnight? = 14 days

$\frac{2}{5} \times 14 = \frac{28}{5}$

or $5\frac{3}{5}$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

19th February

$\square^2 + 9{,}600 = 100^2$

$100^2 = 10{,}000$

$9600 + 400 = 10{,}000$

$\sqrt{400} = 20$

20

$79{,}333 + 65{,}098 + 9{,}999$

$$\begin{array}{r} 79333 \\ 65098 \\ 9999 \\ \hline 154430 \\ {\scriptstyle 2\ 1\ 2\ 2\ 2} \end{array} +$$

154,430

Which fraction is greater?

$\frac{3}{7}$ or $\frac{4}{9}$

$\frac{3}{7} = \frac{27}{63}$

$\frac{4}{9} = \frac{28}{63}$

Georgie is 7 years old today.

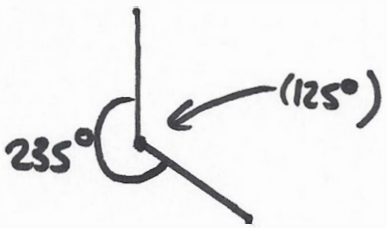
How many days old is she?

255

(not including leap years!)

$$\begin{array}{r} 365 \\ \times\ 7 \\ \hline 2555 \\ {\scriptstyle 4\ 3} \end{array}$$

Draw a 235° angle



$360 - 235 = 125$

© Corbettmaths 2017

Name: Answer 5-a-day Platinum

20th February

61×283

283
× 61
283
16980
41
17263

17263

$\frac{2}{3} = 0.\dot{6}$

2/3
(or any equivalent fraction!)

m is a whole number.

$7m$ is greater than 50
$10m$ is less than 115

Write all the numbers that m could be

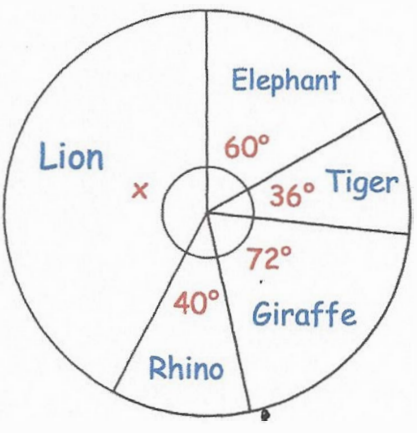
8, 9, 10, 11

7×7 = 49 7 x (too small)

10×12 = 120 12 x (too big)

∴ 8, 9, 10, 11

The pie chart shows information about the animals some children liked best.



Find the size of the angle x.

60+36+72+40 = 208

360 - 208 = 152°

What fraction of children liked Rhinos best?

40/360 (= 1/9)

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

21st February

$10 - 3^2$

9

$\boxed{1}$

$3{,}263 \div 13$

$$\begin{array}{r} 251 \\ 13\overline{)32^{6}6^{1}3} \end{array}$$

$\boxed{251}$

Hannah is baking two cakes

One cake needs $\frac{7}{8}$ cups of milk

Hannah has 1 cup of milk

How much more milk does Hannah need?

$\frac{7}{8} \times 2 = \frac{14}{8} = \frac{7}{4} = 1\frac{3}{4}$

$\therefore$ she needs $\frac{3}{4}$ cup more

Find the highest common factor (HCF) of 24 and 40.

24: 1, 2, 3, 4, 6, 8, 12, 24

40: 1, 2, 4, 5, 8, 10, 20, 40

8

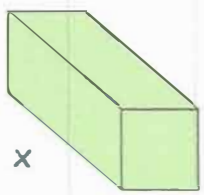
Find the length of this cuboid

$4.5 \times 4 = 18$

$$\begin{array}{r} 24 \\ 18\overline{)4^{4}3^{7}2} \end{array}$$

24cm

Volume: 432cm³



© Corbettmaths 2017

Name: Answers 5-a-day Platinum

22nd February

$\frac{5}{8} - \frac{1}{3}$

$\frac{15}{24} - \frac{8}{24}$

$\frac{7}{24}$

40% of 70

10% = 7

7 × 4 = 28

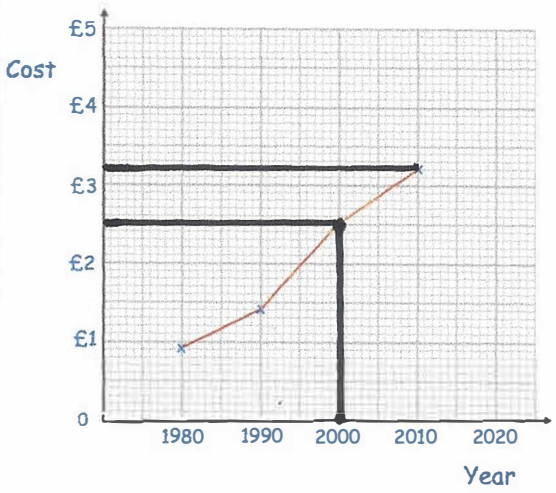
28

Write 0.375 as a fraction.
Give your answer in its simplest form.

$\frac{3}{8}$

$\frac{375}{1000} = \frac{75}{200} = \frac{15}{40} = \frac{3}{8}$

The line graph below shows the cost of a coffee in a shop over 30 years.



In which year was the price £2.50

2000

Estimate the price of a coffee in 2010.

£3.20

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

23rd February

2.3×56

$$\begin{array}{r} 56 \\ \times\ 23 \\ \hline 168 \\ 1120 \\ \hline 1288 \end{array}$$

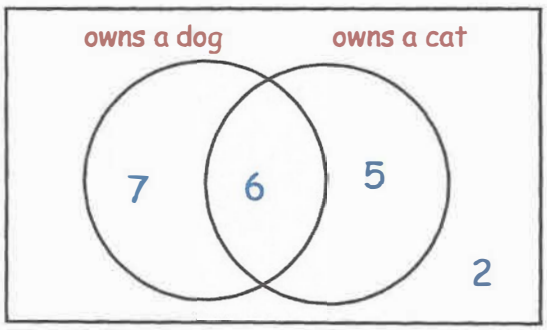
128.8

$15\% \times 840$

10% - 84
5% - 42
126

126

The Venn diagram shows information about the pets owned in a class.



How many children own a cat?

6+5 = 11

What percentage of children do not own a dog or a cat?

7+6+5+2 = 20

$\frac{2}{20} = \frac{1}{10}$ 10%

Work out the value of y

$4y - 7 = 2y + 15$

y = 11

$4y - 7 = 2y + 15$ (-2y)
$2y - 7 = 15$ (+7)
$2y = 22$ ÷2
$y = 11$

© Corbettmaths 2017

Name: Answers

5-a-day

Platinum

24th February

$7\frac{3}{5} = \frac{38}{5}$

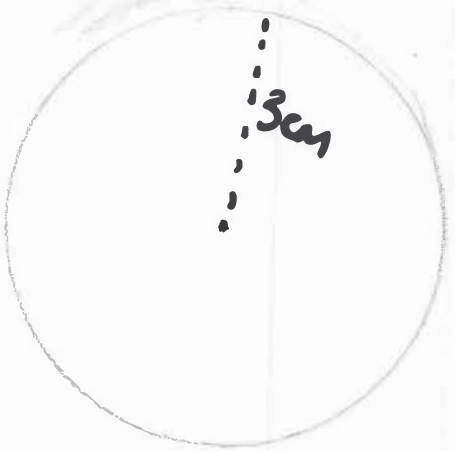
$7 \times 5 + 3 = 38$

38

$$\begin{array}{r} 36 \\ 26 \overline{)\,936} \\ 78 \\ \hline 156 \end{array}$$

36

Draw a circle with a radius of 3cm.



What size is the diameter of the circle?

6cm

There are red, white and yellow counters in a bag.

For every 3 red counters, there are 2 white counters.
There are 25% more yellow counters than red counters.

If there are 40 white counters in the bag, how many yellow counters are there?

3:2 = 60:40
so 60 red
25% more is 60+15 = 75

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

25th February

$1{,}094 \times 28$

$$\begin{array}{r} 1094 \\ \times \quad 28 \\ \hline 8752 \\ 21880 \\ \hline 30632 \\ {\scriptstyle 1\,1} \end{array}$$

30632

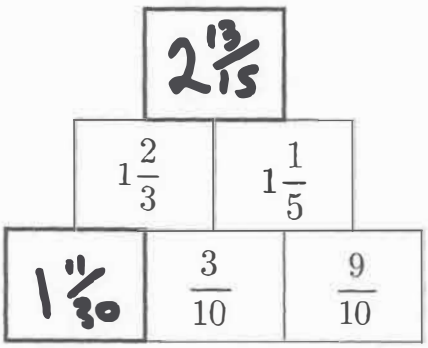
$7 + 22 \times 12 + 18$

$$\begin{array}{r} 22 \\ \times 12 \\ \hline 44 \\ 220 \\ \hline 264 \end{array}$$

$7 + 264 + 18 =$

289

In this pyramid, the number in each box is the sum of the two numbers below it.



Find the two missing numbers

$1\frac{2}{3} - \frac{3}{10} = \frac{50}{30} - \frac{9}{30}$

$= \frac{41}{30} = 1\frac{11}{30}$

$1\frac{2}{3} + 1\frac{1}{5} = \frac{5}{3} + \frac{6}{5}$

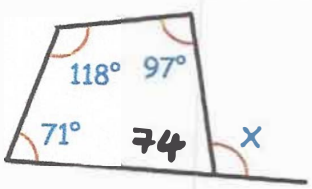
$= \frac{25 + 18}{15} = \frac{43}{15} = 2\frac{13}{15}$

Find the size of angle x

$118 + 97 + 71 = 286$

$360 - 286 = 74$

$180 - 74 = 106$



© Corbettmaths 2017

Name: Answers 5-a-day Platinum

26th February

8^3

$8 \times 8 = 64$

$$\begin{array}{r} 64 \\ \times \quad 8 \\ \hline 512 \\ {\scriptstyle 3} \end{array}$$

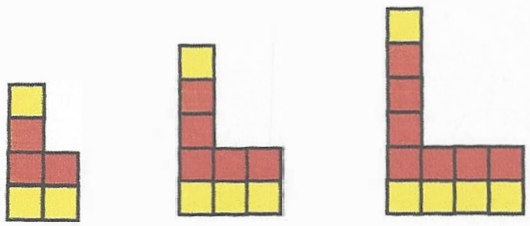
512

$4752 \div 11$

$$11 \overline{)4735^{3}2} \quad 432$$

432

Here is a pattern of red and yellow squares



Pattern 1 Pattern 2 Pattern 3

Which of the following are true?

A Pattern 10 has 11 yellow squares

B The number of red squares is always odd

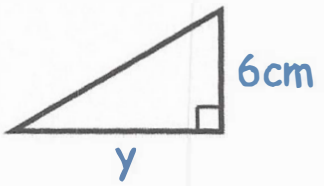
C Every pattern has more red squares than yellow squares

D Pattern 5 has 11 red squares

The area of this triangle is $30cm^2$

Find the length of the base of the triangle, y.

10cm



© Corbettmaths 2017

Name: Answers 5-a-day Platinum

27th February

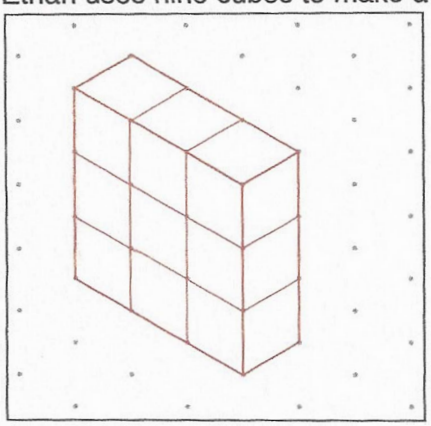
$-12-23$

-35

$1{,}593{,}202 - 730{,}095$

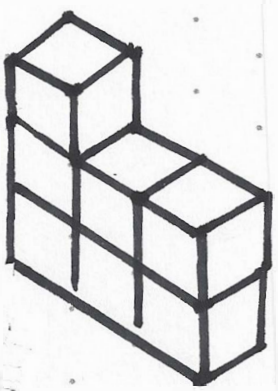
$863{,}107$

Ethan uses nine cubes to make a cuboid.



He then removes two cubes, leaving the other cubes where they are.

Draw what the new shape could be



(for example)

$12{,}432 \div 168 = 74$

Explain how this fact can be used to answer 73×168

$74 \times 168 = 12\,432$

-168 to get 73×168

$(= 12264)$

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

28th February

519×72

519
× 72
1038
36330
6
37368

37 368

$8 \times \frac{2}{5}$

$\frac{16}{5}$ or $3\frac{1}{5}$

Here is a pattern of number pairs

a	b	
1	13	+5
2	18	+5
3	23	+5
4	28	

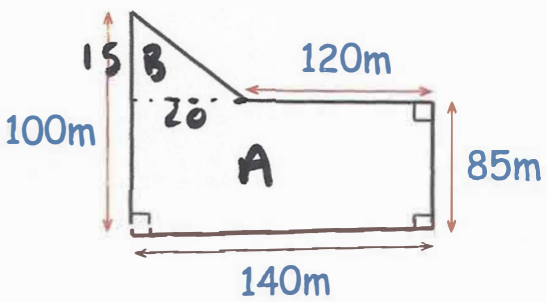
Complete the rule for the number pattern

b = 5 × a + 8

Farmer Patrick keeps chickens in the field below

Each chicken needs $3m^2$

What is the maximum number of chickens that he can keep?



A
Area = 140 × 85 = 11900

B
Area = ½ × 20 × 15 = 150

Total = 12050 m²

12050 ÷ 3 = 4016.6...

4016 chickens

© Corbettmaths 2017

Name: Answers 5-a-day Platinum

29th February

$5.6 \times 3{,}000$

$5.6 \times 3 = 16.8$

$16.8 \times 1000 =$

16800

20% of 24

10% - 2.4

20% - 4.8

4.8

At the end of a film, the year is given in Roman numerals.

Write the year MCMXCI in figures

1991

There are 32 beads in a bag.
Each bead is either blue or yellow.

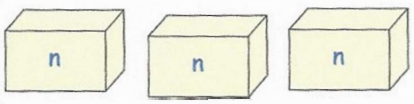
8 beads are blue.

8 blue 24 yellow

Write down the ratio of blue beads to yellow beads

8:24 (or 1:3)

Megan has three boxes.
Each box contains *n* beads.



She puts all her beads together and then removes 2 of them.

Write down how many beads Megan has?

3n - 2

© Corbettmaths 2017