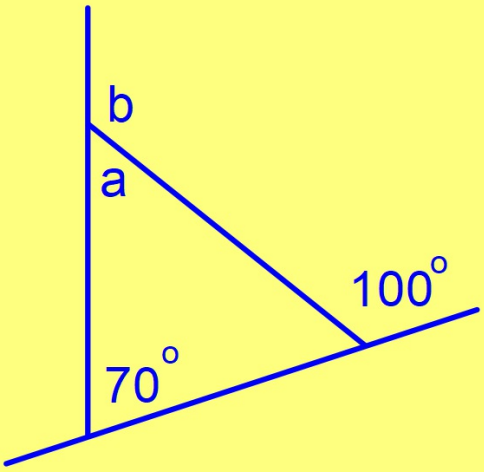
LO: Revise Place Value

Skills Drills

1. 125.4 - 72.38 =
2. 24 + 630 ÷ 9 =
3. 4 - 1.15 =
4. 1564 ÷ 46 =
5. 15 x 6.1=
6. 15% x 440 =
7. $\frac{2}{5}$ x 140 =

8.

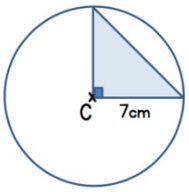


Find the missing angles a and b

Reasoning Practice

1 The diagram shows a right-angled triangle inside a circle.

C is the centre of the circle.



What is the area of the triangle?

2 Neil has some counters.

Neil gives 40% of his counters to Ben.

He then gives $\frac{1}{2}$ of the remaining counters to Stacy.

He has 36 counters left.

How many counters did Neil have at the start?

K
A
O
S
S

Using the following digits to make the largest and smallest numbers that you can and write the numbers in words

5	0	5	7	6	1	3

Now make the 6 numbers that would come before

7,655,310

What is the value of the digit 6 in the following number:

13764320

In your maths book write the number

Nine million 9000000

write down what number is:

1 more

1less

10 more

100 less

100 more

one hundred thousand more

one hundred thousand less

Estimate what the sum of these two numbers is:

76,543 1123321

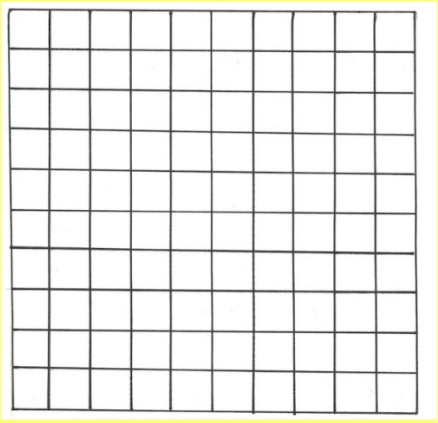
In your book draw a number line showing which 2 hundred thousand numbers the following number would be between

9876543

Which two tens of thousands is it between

In your book see if you can represent
the following numbers using a hundred square
as your image of 1:

0.24, 0.06, 0.001



= 1

Write the following measurements in cms and mms

	cms	mms
0.2 metres =		
0.01 metres =		
0.003 metres =		
0.34 metres =		

What if your 1 was a km

	metres	cms
0.5 km =		
0.02 km =		
0.004 km =		
0.64 km =		

LO: Revise Decimals and Negative Numbers

Skills Drills

1. 52.6 x 24 =

2. 4567 ÷ 8 =

3. write $\frac{3}{8}$ as a decimal

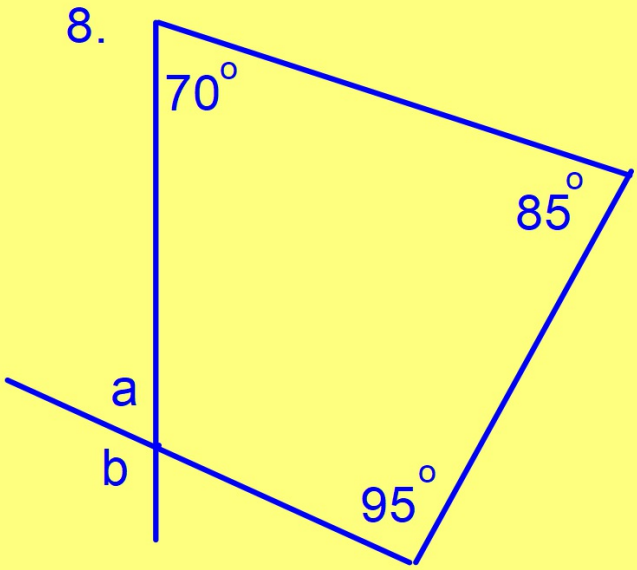
4. 0.03 x 10000 =

5. $\frac{3}{8}$ of 5600 =

6. 45% of 600 =

7. $60 - 32 \div 2^2$ =

8.

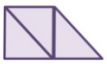


Find the missing angles a and b

Reasoning Practice

1 If this is $\frac{1}{3}$ of a shape.

What fraction of the shape is this?



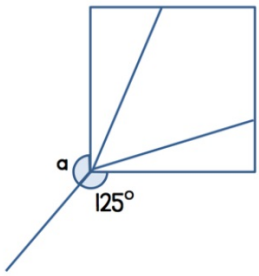
Explain your reasoning.

2 A 5 litre jug of water is shared between 6 glasses.

A 6 litre jug of water is shared between 9 mugs.

Which contains more water a glass or a mug?

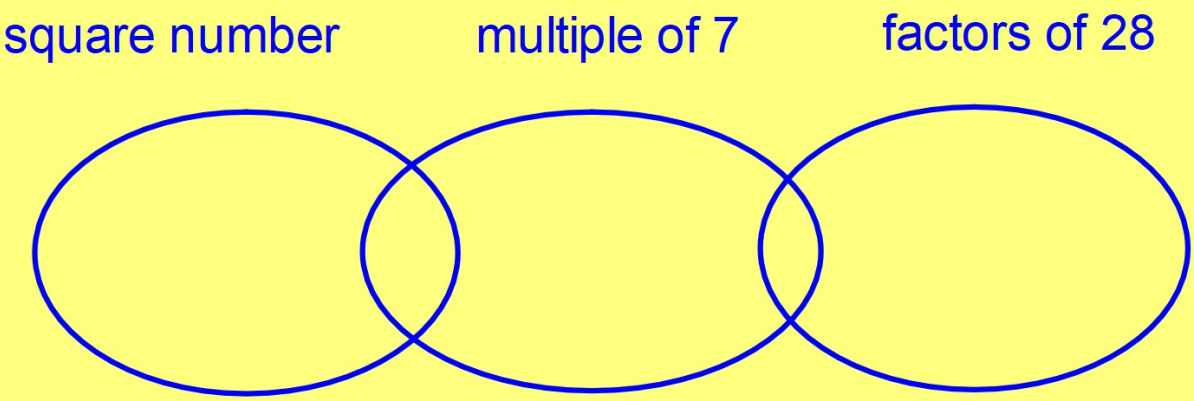
3 The diagram below shows a square and some lines.



What is the size of the angle marked a?

K
A
O
S
S

Quickfire:

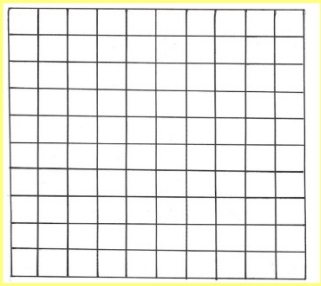


	÷ 10	÷ 100	÷ 1000
976			
24305			
567834			
24			
245.02			

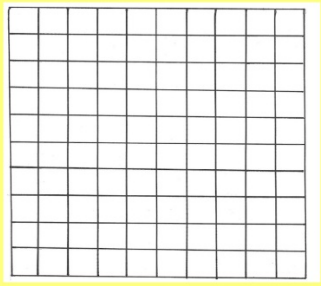
Same or different?

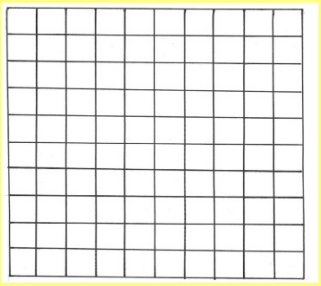
45 tenths

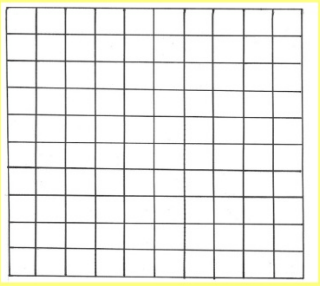
4.5

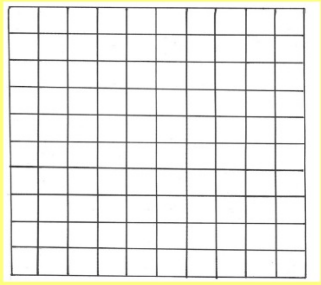


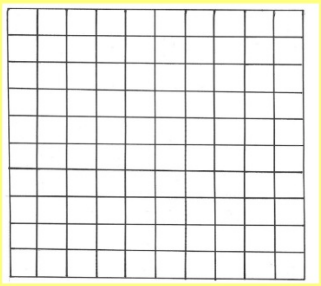
= 1









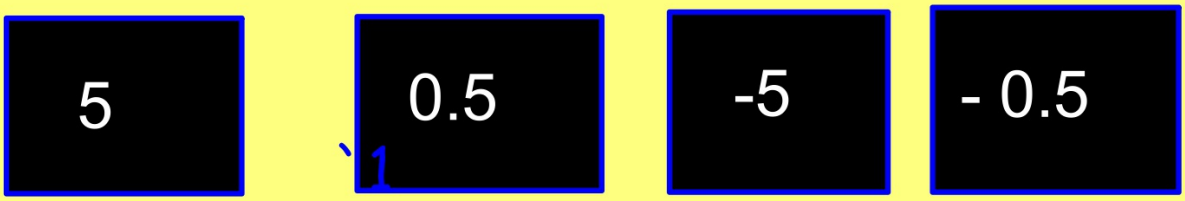


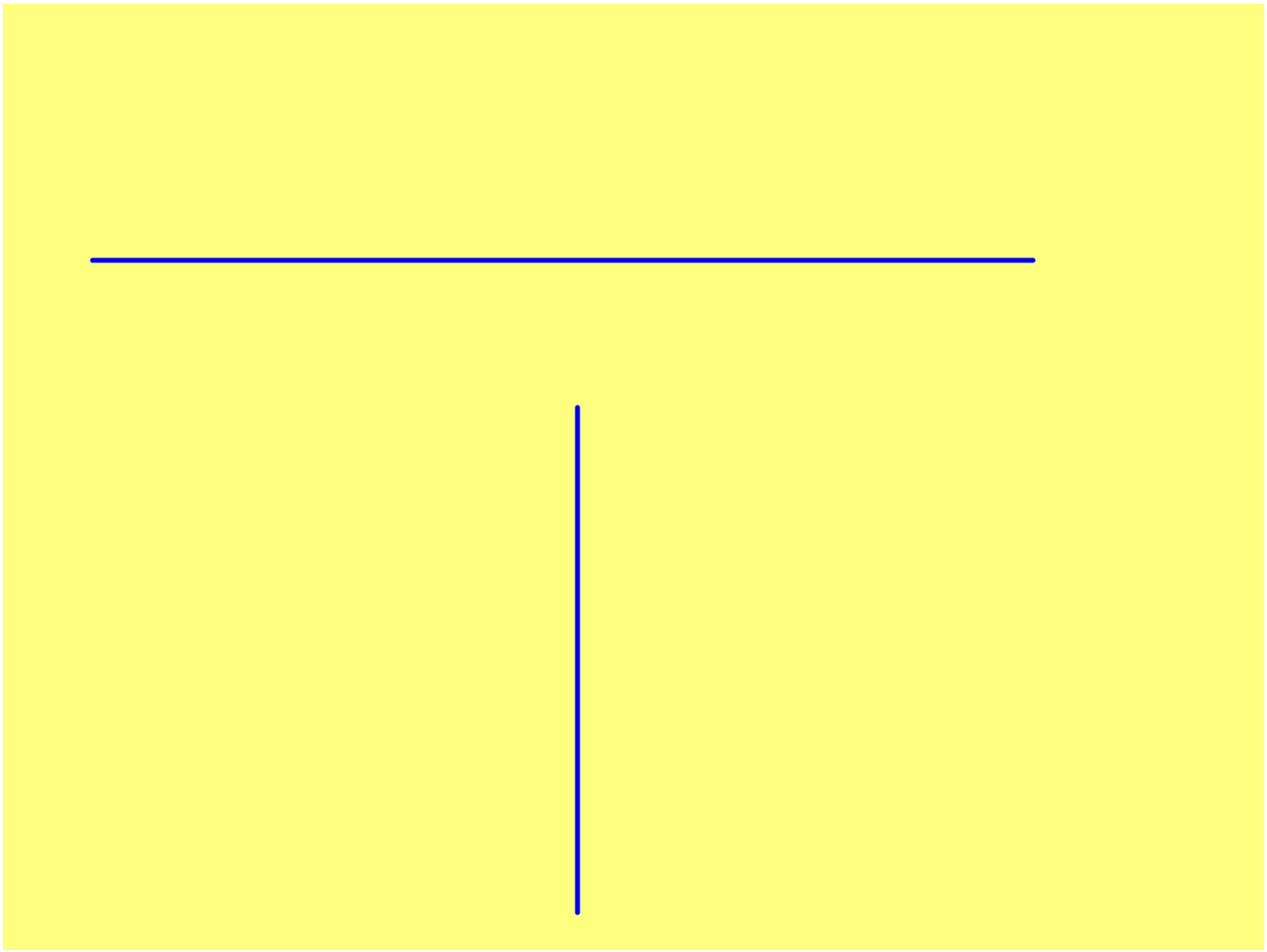
Same or different?

45 tenths

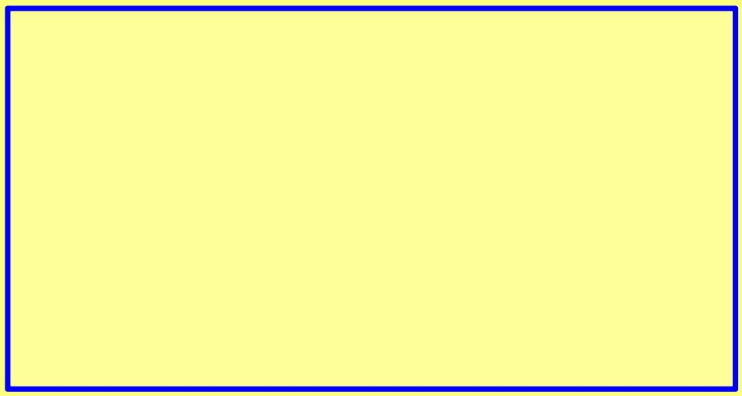
4.5

What is the same? What is different?

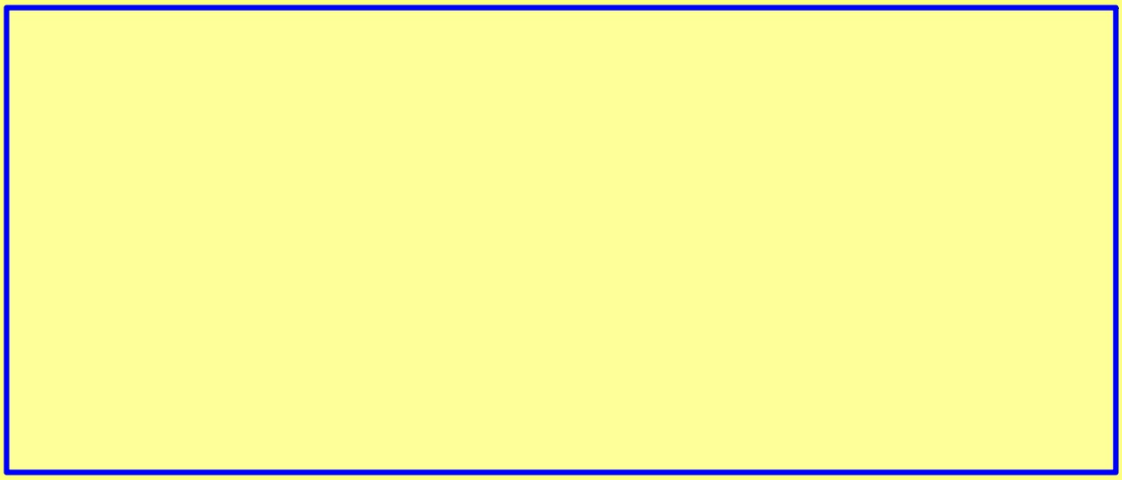




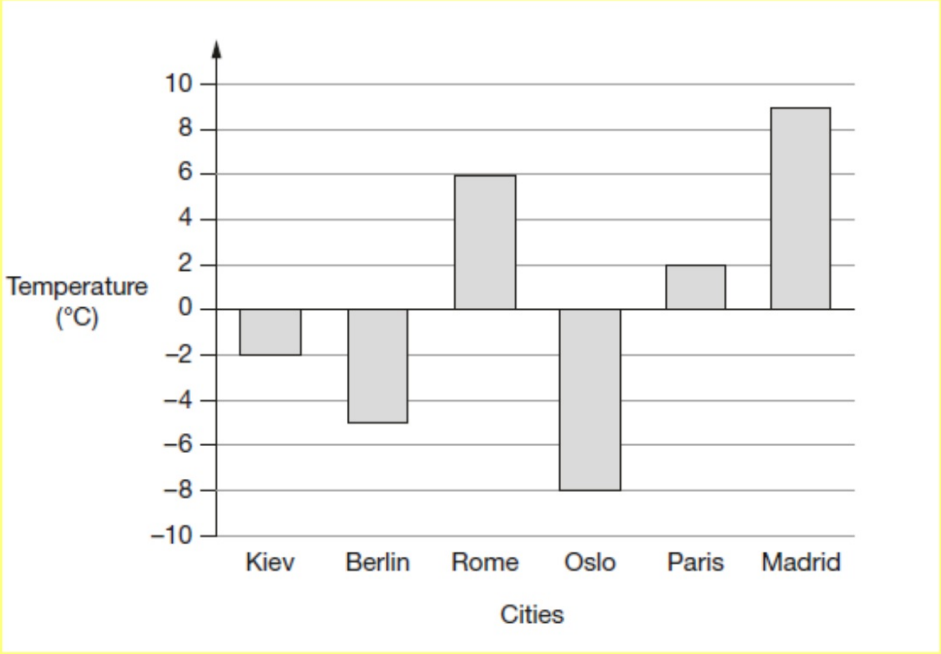
Where do we find negative numbers?



Can you fill in the missing numbers in these sequences?



What do you notice?



Which city was 7 degrees colder than Paris?

What was the difference between the temperature in Berlin and the temperature in Rome?

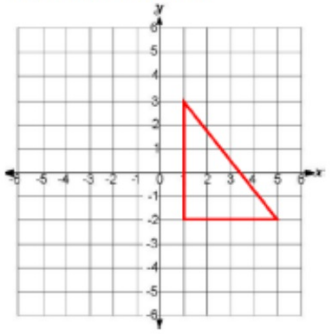
- Filip had £17.50 in bank account. He paid for a jumper that was £30. How much did he have in his bank account after?

- In a Science experiment, a class videoed a thermometer overnight. At 02:30 it read -12°c and it was 15°c at 13:00. What was the difference in temperatures?

- True or false?
  When I count backwards in 50s from 10 I will say -150.
  Explain how you know.

- True or false?
  The temperature is -6°c.
  It becomes 5 degrees warmer.
  It is now -11°c.
  Explain your answer using a drawing.

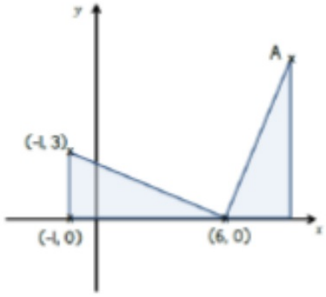
- Nina says that the vertices are in the coordinates:
  (3,1), (-2,1) and (-2,5)
  Explain her mistake.



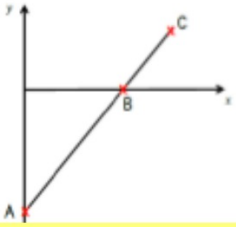
- A square has two vertices at (-2,-1) and (1,-1). What will the other two coordinates be to make the square complete?
  Is there more than one possibility?

- A square has two vertices at (2,1) and (5,4). What will the other two coordinates be to make the square complete?
  Explain why there is only one possibility.

- The diagram shows two identical triangles.
  The co-ordinates of three points are shown.
  Find the co-ordinates of point A.



- A is the point (0, -10)
  B is the point (8, 0)
  The distance from A to B is two thirds of the distance from A to C.
  Find the coordinates of C.



LO: Revise Number Facts

Skills Drills

1. 18.4 - 15.56 =

2. 7654 ÷ 32 =

3. $2\frac{3}{4}$ x13 =

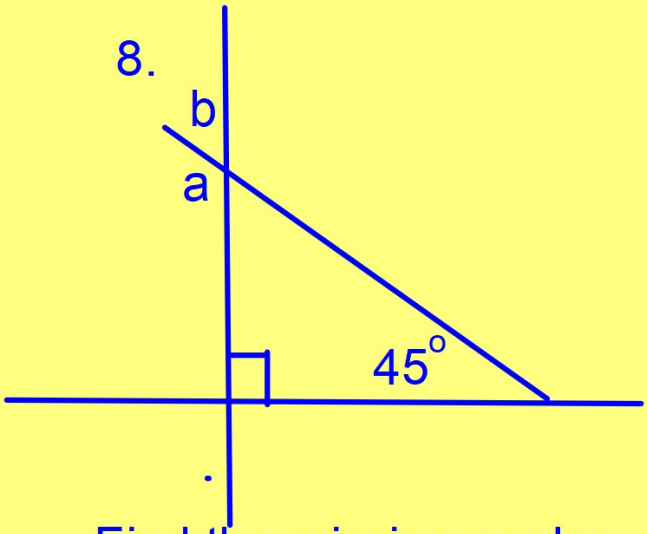
4. 0.07 x ? = 4900

5. $\frac{2}{7}$ 0f ☐ = 140

6. 26% x 800 =

7. Round 3247.381 to the nearest hundred and hundredth

8.



Find the missing angles a and b

Reasoning Practice

1 Add the difference between 7,200 and 3,950 to the product of 278 and 9

2

Tia has £4.78

Millie has £33.82

Millie gives Tia some money.

Millie now has 3 times as much money as Tia.

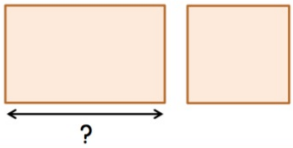
How much money did Millie give Tia?

3 A rectangle has an area of 720 cm^2

The width of the rectangle is 18 cm.

A square is cut off the end of the rectangle.

What is the length of the rectangle remaining?



K
A
O
S
S

Quickfire:

Mean	Product	X Axis
Polygon	Parallel	Proportion
Multiple	Y Axis	Perpendicular
Ratio	Integer	Volume

If you know this.....

$24 \times 4 = 96$

What else do you know and what else is easy to find out?
Record your ideas in your book.

If you know...

5542 ÷ 17 = 326

how could you use this to help you find out
18 x 326?

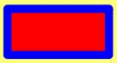
$9 \times ? = 31914$

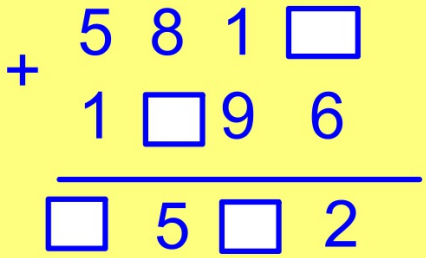
$384 = ? \div 9$

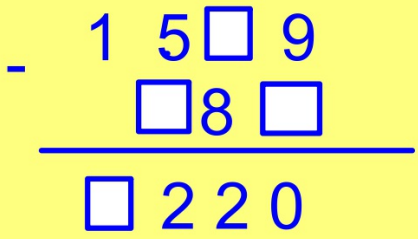
What about...

5419 + 2000 = 9836 - 

What about...

200 x  = 750 + 


5 8 1
+
1 9 6
5 2


- 1 5 9
8
2 2 0

- The mass of a box of chocolates is 290g.
  The box contains 7 identical chocolates.

  Manish eats 3 chocolates.
  The mass of the box is now 194g
  Find the weight of them empty box.

- You have been asked to bury some bags of money on an island. The money has been divided into nine separate bags containing these amounts:
  £21, £20, £19, £12, £11, £10, £3, £2, £1.
  You must bury the money in a three by three grid so that each row and column, horizontal, vertical and diagonal has £33.

- Three chicks lay some eggs.

  Beth lays twice as many as Kelsey.
  Caroline lays 4 more than Beth.
  They lay 44 eggs in total.
  How many eggs does Caroline lay?
  (You may find it useful to draw a bar model)

- Choose operations to go in the boxes to make the number sentences true:
  5 ☐ 3 ☐ 8 = 23

  5 ☐ 3 ☐ 8 = 29

- Jamie has a number.

  What answer does Jamie get if she divides the same number by 15?

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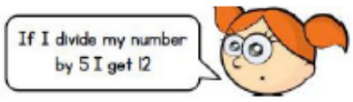


What answer does Jamie get if she divides the same number by 15?
Explain your answer.

LO: Revise Fractions

Skills Drills

1. write all the common factors of 16 and 30

2. 30 ÷ ___ = 0.015

3. $100 - 2 \times 4^2 =$

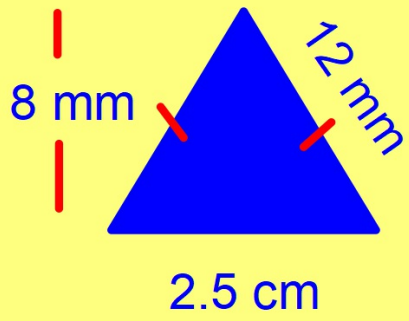
4. 90% x £300 =

5. 75% of 4.4 km =

6. 1554 ÷ 37 =

7. 3a + 15 = 33 a=

8. 2a - 8 = 24 a =

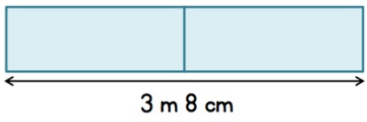


area =

perimeter =

Reasoning Practice

1 Here are two identical rectangles.

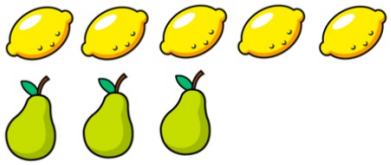


What is the length of one of the rectangles?

2 What fraction of the shape is not shaded?

3 A bag contains some lemons and pears.

For every 5 lemons there are 3 pears.



There are 18 more lemons than pears.

How many lemons are there in total?

K
A
O
S
S

Quickfire:

Use a factor tree to find all the prime factors of the number 48 Remember that the prime factors should multiply together to make your original number

48

How many different representations can you find for the following fraction

$$\frac{2}{5}$$

What are the missing numbers, explain how you know

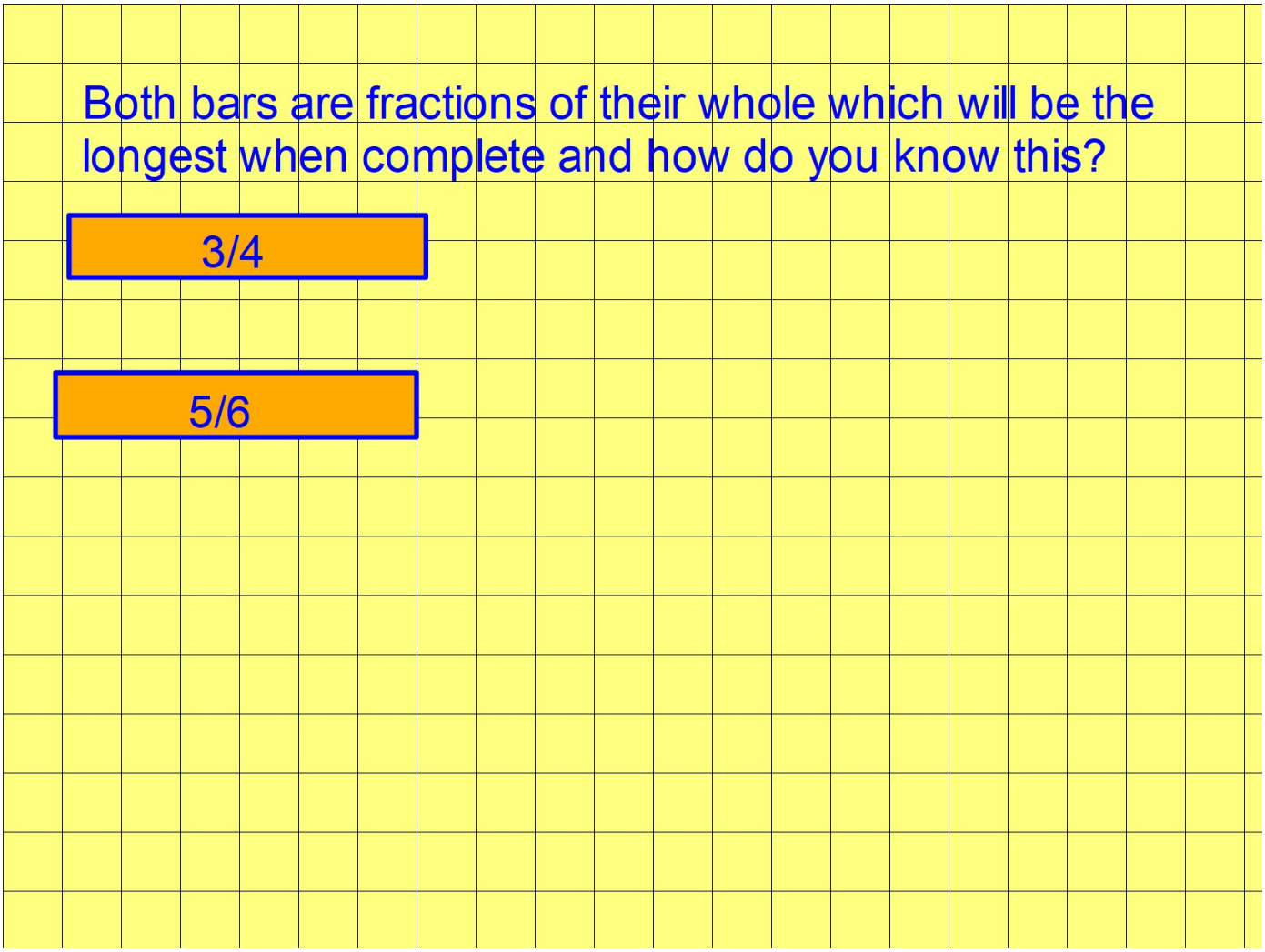
$$\frac{20}{\quad} = \frac{5}{15} = \frac{\quad}{45}$$

Is this true sometimes, always or never

"To simplify a fraction I just have to keep dividing the numerator and denominator by 2."

find examples to back up your thoughts

Both bars are fractions of their whole which will be the longest when complete and how do you know this?



Are these the same calculations or different calculations? Explain your reasoning.

$5 \div 2 =$ $5 \times \frac{1}{2} =$ $\frac{1}{2}$ of $5 =$

What about....

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

- Three friends went shopping.
  Steve spent $\frac{3}{7}$ of his money.

  Alfie spent $\frac{4}{12}$ of his money.
  Becky spent half of what Alfie spent.
  Order them from smallest to largest by what they spent.

- A family were eating tea. The dad ate everything on his plate; the mum ate half of what Dad ate. The sister ate a quarter of what Mum ate and the brother ate a half of what the sister ate. What fraction of their food did each person eat?

- Which is greater?

  $\frac{2}{3}$ or $\frac{4}{7}$

- The rule for the sequence below is

  Double the fraction and subtract $\frac{2}{7}$

  Complete the sequence

  $\frac{3}{7}, \frac{4}{7}, \frac{6}{7}, \_, \_$

- Simplify the following fraction to its lowest form.

  $\frac{48}{54}$

- A jug contains some milk. Josh pours $\frac{1}{2}$ of the milk into a glass.
  Josh pours $\frac{3}{10}$ of the milk into another glass.
  What fraction of the milk is left?

- Work out:

$$5\frac{3}{7} - 2\frac{6}{5}$$

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- Katie subtracted $\frac{3}{5}$ from a fraction and her answer was $\frac{9}{45}$
  What was the original question?

- Koby buys two identical chocolate bars.
  He ate part of one on Saturday and part of one on Sunday.
  Each day he gives the left over chocolate to his mum.
  The blue squares show the fraction he ate each day.

  How much chocolate did he give to his mum on Saturday?
  How much chocolate did he give to his mum on Sunday?
  How much more, as a fraction did Koby eat on Sunday?

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- Katie subtracted $\frac{3}{5}$ from a fraction and her answer was $\frac{8}{45}$
  What was the original question?

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