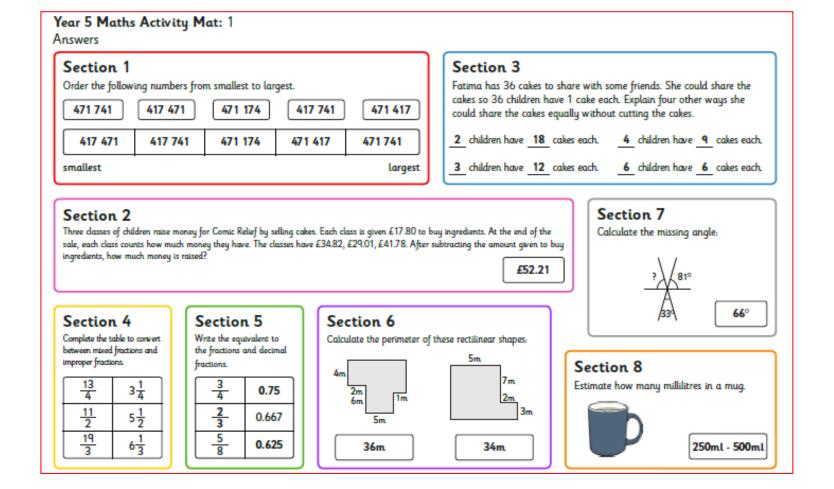
Answers for the maths mats



Answers

Section 1

Circle the numbers where '5' is in the thousands place:

92 735

92 854

85 492

95 410

16 905

56 892

Calculate the following in your

75

81

37

54

78 501

50 467

93 578

27 651

Section 2

head:

56 + 19 =

27 + 54 =

82 - 45 =

92 - 38 =

Section 3

Calculate:

769

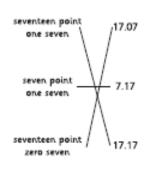
Section 4

Insert the correct symbol to make this number sentence correct. <, > or =

<u>4</u> 5	1	<u>8</u> 10
1 3	٧	<u>5</u> 12
7 8	>	33 40

Section 5

Match the following numerals to the equivalent written number.



Section 6

Complete the table to convert between millilitres and litres.

Millilitres	Litres
110ml	0.11l
10 000ml	101
1650ml	1.65l

Section 7

Write regular or irregular under the following shapes:





regular

irregular

Section 8

Here is a table showing the number of vehicles that passed a school in one day.

Vehicle	Number
Car	273
Bus	37
Lorry	29
Van	25

Three times as many cars passed the school as other vehicles. How many vans passed the school?

Answers

Section 1

Continue the number sequence.

1099	2	2099	30	99	4099	1	5099
92 773	3	91 7	73	90	773	:	89 773
56 923	3	66 9	23	76	923	;	86 923

708 902

Section 3

Calculate:

Section 5

Round these numbers to the nearest whole number:

Section 7

How many rectangles are there in this drawing?



9

Section 2

718 902

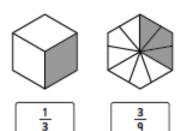
Write all the prime numbers from 21 to 50.

Section 4

698 902

Accept any reasonable answer.

For example:



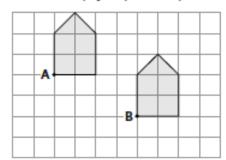
Section 6

Ben gets the 17:12 train. The journey is due to last 1 hour 52 minutes. At what time should the train arrive?

19:04

Section 8

Translate this shape from point A to point B.



23, 29, 31, 37, 41, 43, 47

Answers

Section 1

The temperature is -8°C. Two hours earlier, the temperature was 6°C warmer. What was the temperature two hours earlier?

-2°C

Section 3

Section 4

Order the following fractions from smallest to largest.

2 3	13 18	5	11 12
smallest			largest

Section 2

Here are the weekend cinema takings for 29th April - 1* May 2016.

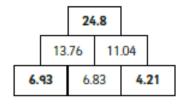
Captain America	£14 466 681
The Jungle Book	£5 758 824

What was the difference in takings between the two films, rounded to the nearest thousand?

£8 708 000

Section 5

Adjacent squares are added together to give the number above. Complete the number wall



Section 6

1kg ≈ 2.2lb (pounds)

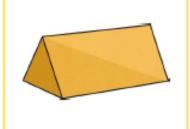
1 stone = 14lb

How many kilograms in one stone? Give your answer to two decimal places.

6.36 kg

Section 7

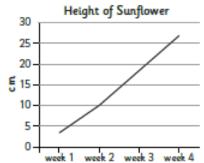
Draw a triangular prism.



Section 8

Children measure the height of a sunflower once a week. They record their measurements in a table.

Week	Height of sunflower (cm)
Week 1	3
Week 2	10
Week 3	18
Week 4	27



Draw the line on the graph.

Answers

Section 1

Write these Roman Numerals as numbers.

Section 3

Calculate:

Section 4

Calculate:

$$\frac{2}{5} + \frac{1}{10} = \begin{bmatrix} \frac{5}{10} & \frac{1}{2} \end{bmatrix}$$

$$\frac{2}{3} - \frac{1}{12} = \boxed{\frac{7}{12}}$$

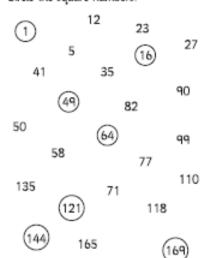
Section 5

Write the following fractions as percentages:

$$\frac{48}{100} = \boxed{48\%} \quad \frac{19}{100} = \boxed{19\%} \quad \frac{6}{100} = \boxed{6\%}$$

Section 2

Circle the square numbers:



Section 6

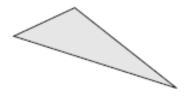
1ml of water weighs 1g. An empty plastic bottle weighs 10g. How much do 4 half-litre bottles full of water weigh in kilograms?

2.04kg

Section 7

Draw a triangle with 2 acute angles and 1 obtuse angle.

Example:



Section 8

Here is a train timetable:

London St Pancras	06:32	07:24	07:58
Leicester	07:52	08:30	09:01
Derby	08:19	09:05	09:25
Chesterfield	08:37	09:27	09:43
Sheffield	08:55	09:41	09:58

Which is the slowest train?

06:32 (from London)

Jan needs to arrive in Sheffield by quarter to ten. Which train should she catch from Leicester?

07:52 or 08:30

Answers

Section 1

I am a 3-digit number.

I am odd.

I have twice as many hundreds as tens.

I have twice as many tens as ones.

What am I?

421

Section 2

Write the factor pairs of 32.

1 x 32, 2 x 16, 4 x 8

Write the common factors of 9 and 27.

1, 3, 9

Section 3

Lucas collects 5p coins.

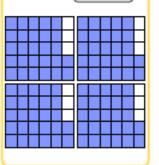
When his jar is full,
he shares the money
between 3 local charities.
He counts the full jar and
has 255 5p coins. How
much will each charity
receive?

£4.25 each

Section 4

Use the visual representation to calculate:

$$5\frac{2}{5} \times 4 =$$



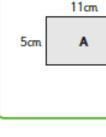
Section 5

Complete the table by writing the equivalent fraction or percentage:

<u>2</u> 5	40%
1 or 100	33%
<u>4</u> 5	80%
1/2	50%
3 4	75%

Section 6

Which rectangle has the larger area?



7cm B

8cm

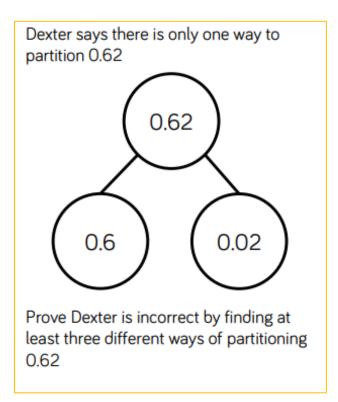
В

Today you are going to complete some questions and problem solving based purely on decimals and percentages – we have done this in class and home learning but if any help is needed, just contact me ©

Some will take more thinking and explanation than others.

Again, I've added enough in to keep you going so only do an hour if that's all you have time for!

Decimals and Percentages

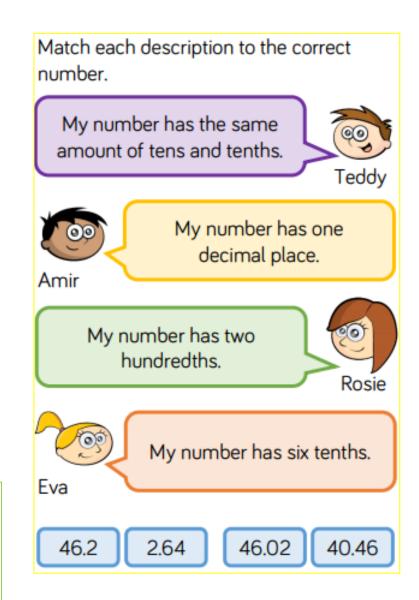


Which number is represented on the place value chart?

Ones	Tenths	Hundredths	
	3	<u>S</u>	
0	1	2	

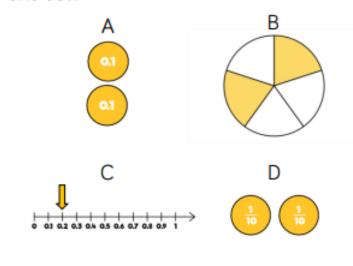
There are ____ ones, ____ tenths and ____ hundredths.

The number is ____



Odd one out

Which of the images below is the odd one out?



Explain why.

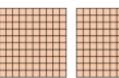
Use the models to record equivalent decimals and fractions.

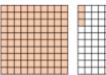


$$0.3 = \frac{3}{10} = \frac{30}{100}$$

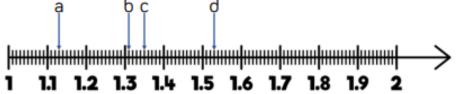








Write down the value of a, b, c and d as a decimal and a fraction.



Amir says,

To convert a fraction to a decimal, take the numerator and put it after the decimal point.



E.g.
$$\frac{21}{100} = 0.21$$

Write two examples of converting fractions to decimals to prove this does not always work.



In this problem symbols have been used to represent two different numbers. Write down the value of each, as a mixed number and as a decimal.



$$\Delta = \frac{1}{100}$$



= 1 $= \frac{1}{10}$ $= \frac{1}{100}$ $= \frac{1}{1000}$

0.394

= 3 tenths, 9 hundredths and 4 thousandths

$$=\frac{3}{10}+\frac{9}{100}+\frac{4}{1000}$$

$$= 0.3 + 0.09 + 0.004$$

Write these numbers in three different ways:

0.472

0.529

0.307



Dexter is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.

chocolates could be?



He measures it to the nearest cm and writes the answer 28 cm.
What is the smallest length the box of

Whitney is thinking of a number.

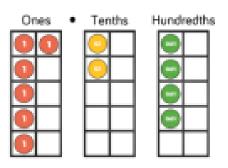


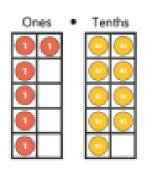
Rounded to the nearest whole her number is 4

Rounded to the nearest tenth her number is 3.8

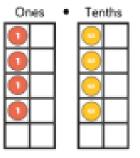
Write down at least 4 different numbers that she could be thinking of.

Round each number to the nearest tenth and nearest whole number.



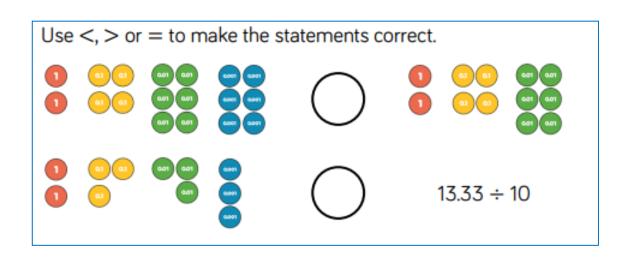








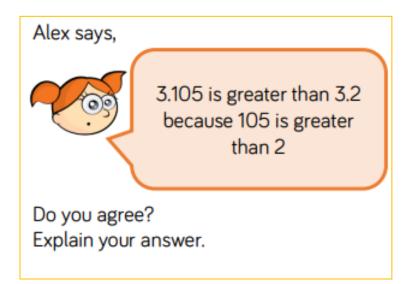
E



Place the numbers in ascending order on the number line.

3.115 $3\frac{113}{100}$

Three and 11 hundredths



Mo, Annie and Tommy all did a test with 100 questions. Tommy got 6 fewer questions correct than Mo.

Name	Score	Percentage
Мо	56 out of 100	
Annie		65%
Tommy		

Complete the table.

How many more marks did each child need to score 100%?

Record the fractions as decimals and percentages.

120	320	20	12
300	400	200	50

Dora and Amir each have 100 sweets. Dora eats 65% of hers. Amir has 35 sweets left.

Who has more sweets left?

Complete the table.

Pictorial	Percentage	Fraction	Decimal
	41 parts per hundred	41 out of 100	41 hundredths
	41%	$\frac{41}{100}$	0.41
	43 parts per hundred	43 out of 100	43 hundredths
	43%	43/100	0.43
	7 parts per hundred	7 out of 100	7 hundredths
	7%	7/100	0.07

Alex has read 93 pages of her book. Her book has 300 pages. What proportion of her book has she read? Give your answer as a percentage and a decimal.

$$\frac{93}{300} = \frac{?}{100} =$$
_____% = _____

Make the denominator 100 as an equivalent fraction