

Hello children. Welcome to a new week. **I hope that you are still completing your daily X Tables Rockstars!**

Before our main task we are going to work on an activity mat. If a question requires you to shade you can leave out the question or draw the shape in your book. **The challenge mat is optional as the main task takes a lot of time.**

Maths Mat 1 -

Section 1

I am a three-digit number. I am odd. The sum of my digits is 10. The tens digit is even. The ones digit is half the tens digit. I am more than 600.

What am I?

Section 2

Write the factor pairs of 36.

.....

Write the common factors of 10 and 24.

.....

Section 3

Football cards come in packs of four cards. Three children buy 36 packs of cards. They share the cards equally. How many will they have each?

Section 4

Calculate:

$$4\frac{2}{3} \times 5 = \boxed{}$$

Section 5

Match the following:

$\frac{1}{5}$	50%
$\frac{1}{4}$	20%
$\frac{4}{5}$	25%
$\frac{1}{2}$	80%
$\frac{2}{5}$	40%

Section 6

Which rectangle has the larger area?

12cm

A

3cm

8cm

B

4cm

not to scale

Section 7

Draw an angle of 135°.

Section 8

Reflect this shape about the line AB.

For the main task we are going to continue to work from the White Rose site. We are going to learn about percentages.

Please let the video guide you when tackling the activity.

1. Copy or click on the link (press Ctrl then click) <https://whiterosemaths.com/homelearning/>

Then click Year 5

The screenshot shows the White Rose Maths Home Learning page. At the top, there is a 'Summer Term Plans' banner with a 'Click here for more details' button. Below this is a 'Hello there, Parents and Carers!' section. The main content area features a grid of buttons for different year groups: Early Years, Year 1, Year 2, Year 3, Year 4, Year 5, Year 6, Year 7, Year 8, Year 9, Year 10, and By Topic. A blue arrow points to the 'Year 5' button with the word 'click' written next to it. To the right of the grid is a 'Home Learning' sidebar menu with a list of year groups from Early Years to Year 10.

[Click](#)

First, watch the video to support your learning and use it to work on the activity sheets below.

Lesson 1 - Understand percentages

There are 49 parts out of a hundred shaded.
This is 49 %.

49% shaded, so 51% is not shaded.

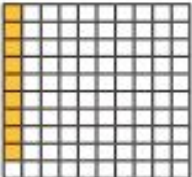
Looking
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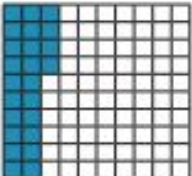


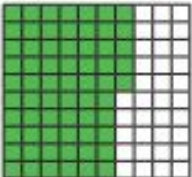
Next complete the worksheets below

Understand percentages

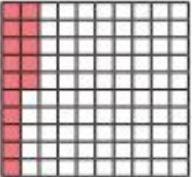
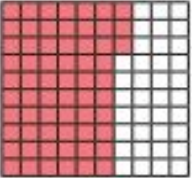
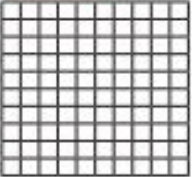
1 Complete the sentence for each diagram.

a)  There are parts out of a hundred shaded.
This is %.

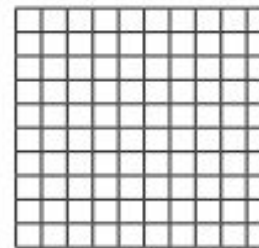
b)  There are parts out of a hundred shaded.
This is %.

c)  There are parts out of a hundred shaded.
This is %.

2 Complete the table.

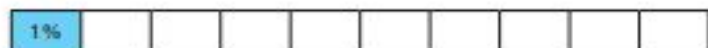
Hundred square	Percentage
	
	
	82%

3 Shade 15% of the hundred square red.
Shade 32% of the hundred square blue.



What percentage of the hundred square is not shaded? %

- 4 a) Is 1% of this bar model shaded? _____

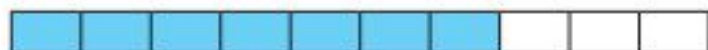


Explain your reasoning.

- b) What percentage of each bar model is shaded?



%



%

- 5 Passengers are boarding a plane.

The plane has 100 seats.

- a) 10% of the seats are already full.

How many passengers are already on the plane?

- b) 15% of the seats have not been booked.

How many seats have been booked?

- c) How many passengers still need to board the plane?



- 6 Dexter has £1 to spend.
He buys some stickers.



I got 35p change.



What percentage of his money did Dexter spend?

%

- 7 Aisha and Brett have been selling tickets for the school play.

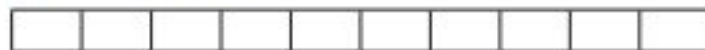
There are 100 seats available.

- On Monday they sold 34% of the tickets.
- On Tuesday they sold 42 tickets.
- By the end of Wednesday, 95% of the tickets had been sold.

How many tickets did they sell on Wednesday?

On Wednesday they sold tickets.

- 8 Shade 85% of this bar model.



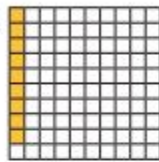
Compare answers with a partner.

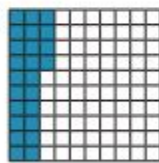
Answers

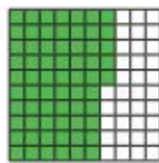
Understand percentages



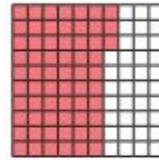
1 Complete the sentence for each diagram.

a)  There are parts out of a hundred shaded.
This is %.

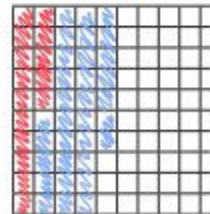
b)  There are parts out of a hundred shaded.
This is %.

c)  There are parts out of a hundred shaded.
This is %.

2 Complete the table.

Hundred square	Percentage
	15%
	63%
	82%

3 Shade 15% of the hundred square red.
Shade 32% of the hundred square blue.



What percentage of the hundred square is not shaded? %

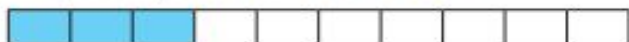
- 4 a) Is 1% of this bar model shaded? No



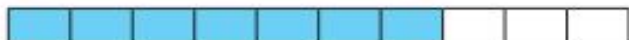
Explain your reasoning.

It's split into 10 parts so each part is 10%

- b) What percentage of each bar model is shaded?



30 %



70 %

- 5 Passengers are boarding a plane.

The plane has 100 seats.

- a) 10% of the seats are already full.

How many passengers are already on the plane?

10

- b) 15% of the seats have not been booked.

How many seats have been booked?

85

- c) How many passengers still need to board the plane?

75

- 6 Dexter has £1 to spend.
He buys some stickers.



I got 35p change.



What percentage of his money did Dexter spend?

$$£1 - 35p = 65p \leftarrow \text{spent}$$

65 %

$$\frac{65p}{100p}$$

- 7 Aisha and Brett have been selling tickets for the school play.

There are 100 seats available.

- On Monday they sold 34% of the tickets. (34)
- On Tuesday they sold 42 tickets.
- By the end of Wednesday, 95% of the tickets had been sold. (95)

How many tickets did they sell on Wednesday?

$$34 + 42 = 76$$

$$95 - 76 = 19$$

On Wednesday they sold 19 tickets.

- 8 Shade 85% of this bar model.



Compare answers with a partner.

Challenge mat answers

Year 5 Maths Activity Mat: 6

Answers

Section 1

I am a three-digit number. I am odd. The sum of my digits is 10. The tens digit is even. The ones digit is half the tens digit. I am more than 600.

What am I?

721

Section 2

Write the factor pairs of 36.

1 x 36, 2 x 18, 3 x 12, 4 x 9, 6 x 6

Write the common factors of 10 and 24.

1, 2

Section 3

Football cards come in packs of four cards. Three children buy 36 packs of cards. They share the cards equally. How many will they have each?

48 cards

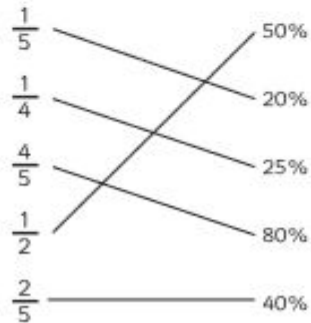
Section 4

Calculate:

$$4\frac{2}{3} \times 5 = 23\frac{1}{3}$$

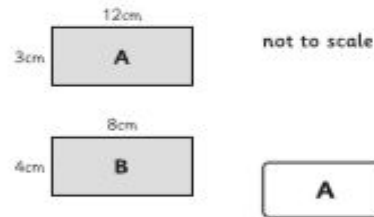
Section 5

Match the following:



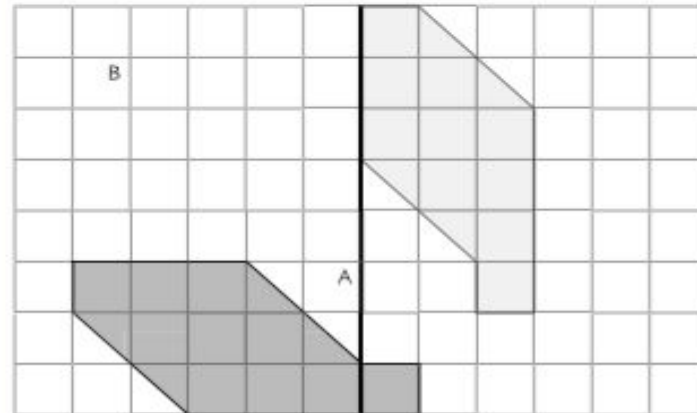
Section 6

Which rectangle has the larger area?



Section 8

Reflect this shape about the line AB.



Section 7

Draw an angle of 135°.

