

Topic Test 1 (20 minutes)

Basic percentages - Higher

- 1 Circle the fraction that is equivalent to 44%

[1 mark]

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

$$\frac{11}{25}$$

$$\frac{11}{20}$$

$$\frac{4}{11}$$

- 2 Arrange the following values in order, starting with the smallest.

0.7

$$\frac{5}{8}$$

66%

three-quarters

[2 marks]

Answer _____

- 3 Which is the greater percentage

18 out of 40

or 41 out of 90?

[2 marks]

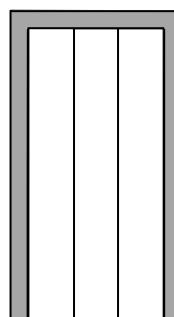
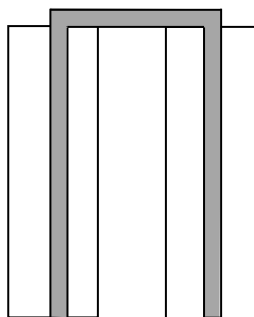
Answer _____

- 4 A quantity is doubled in size.
By what percentage has it increased?
Circle your answer.

[1 mark]

2% 50% 100% 200%

- 5 A doorway is closed by 2 sliding doors.
Each sliding door is 60% of the width of the doorway.
When the doors are closed they overlap.



Not drawn
accurately

What percentage of the width of the doorway is the overlap?

[1 mark]

Answer _____ %

- 6 Which of the following statements is definitely false.
Tick your choice.

[1 mark]

I blew the balloon up to 120% of its original size.

☐

I ate 120% of the cake.

☐

I need to use 120% of the quantities in the recipe to
change a recipe for 5 people into one for 6 people.

☐

The height of the sunflower more than doubled in
size because the height increased by 120%

☐

-
- 7** 40% of the trees in a wood are diseased.
75% of the trees in the wood are elms.

Work out the **least** possible percentage of trees in the wood that are diseased elms.

[2 marks]

Answer _____ %

- 8** 'Sofas R Us' increases its prices by 10% and then reduced them by 5%.
'Sofa So Good' reduced its prices by 5% and then increased them by 10%

- 8 (a)** Which shop increased its prices by the greater percentage?
Circle your answer.

[1 mark]

| | | | | |
|------|------------|--------------|---------------|--------|
| | Sofas R Us | Sofa So Good | Both the same | Cannot |
| tell | | | | |

- 8 (b)** Explain your choice.

[2 marks]

-
- 9** A square has a side of 8 cm
The **area** of the square increases by 50%

Work out the percentage increase in the length of the side.

[4 marks]

Answer _____ %

- 10** a is 30% of b
 b is 90% of c

What percentage of c is a ?

[3 marks]

Answer _____ %