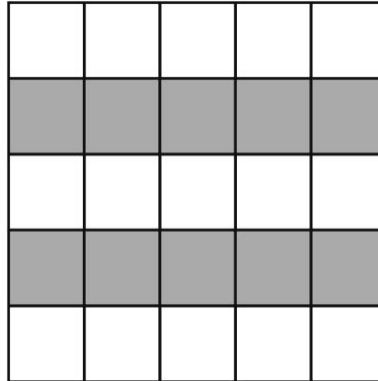


- 1 This square is divided into smaller squares.



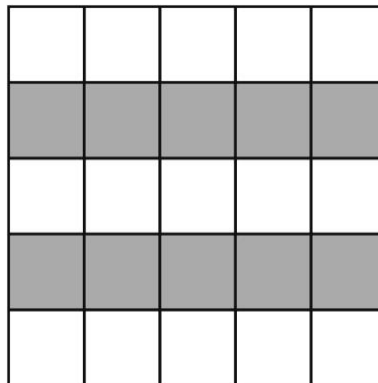
- a Write the percentage of the square that is shaded.

$$\frac{\square}{\square} = \frac{\square}{100} = \square\%$$

_____ **40%** _____

Tip: You could start by counting the total number of squares and the number of squares that are shaded.

- 2 This square is divided into smaller squares.



- a. Write the percentage of the square that is shaded. 40%
- b Write the percentage as a fraction in its lowest terms. $\frac{2}{5}$

3 Simplify these fractions.

a $\frac{30}{100}$

$\frac{3}{10}$

b $\frac{16}{20}$

$\frac{4}{5}$

c $\frac{7}{28}$

$\frac{1}{7}$

d $\frac{12}{24}$

$\frac{1}{2}$

Tip: Remember to look for a number that divides into the numerator and the denominator of the fraction.

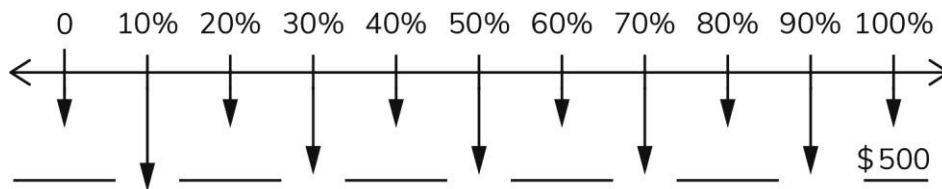
4 Write these fractions in order of size. Start with the smallest fraction.

$\frac{1}{2}$ $\frac{5}{8}$ $\frac{1}{4}$ $\frac{7}{8}$ $\frac{3}{4}$

Tip: It could be useful to find equivalent fractions with the same denominator.

$\frac{1}{4}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$

5 Find 10% of the quantity, then use your answer to find 20%, 30% and so on. Write the answers under the percentages on the number line.



0 50 100 150 200 250 300 350 400 450 \$500

Tip: Find 10% of \$500 by dividing 500 by 10. Use that answer to find all the other answers.

6 Write these numbers in order of size, starting with the smallest.

$$\frac{1}{4} \quad 0.14 \quad 41\% \quad \frac{2}{5} \quad 0.26$$

Tip: Write $\frac{1}{4}$ and $\frac{2}{5}$ as equivalent decimals or percentages.

0.14, $\frac{1}{4}$, 0.26, $\frac{2}{5}$, 0.41%

7 Use the symbols $<$, $>$ or $=$ to make each statement correct.

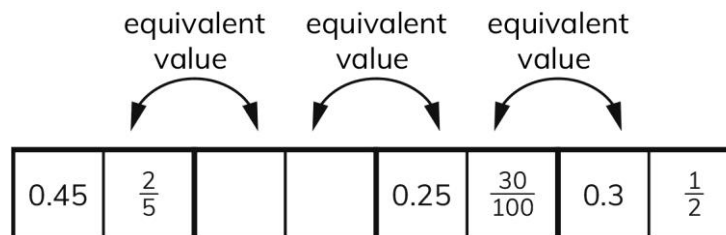
$$\frac{9}{10} \quad \boxed{>} \quad 0.09$$

$$\frac{3}{50} \quad \boxed{=} \quad 6\%$$

$$\frac{57}{1000} \quad \boxed{<} \quad 0.57$$

8 Four dominoes are placed in a row.

The numbers on one domino are missing.

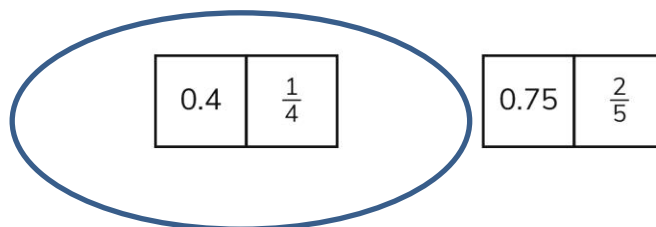


Draw a ring around the missing domino.

0.2	$\frac{2}{5}$
-----	---------------

0.4	$\frac{2}{5}$
-----	---------------

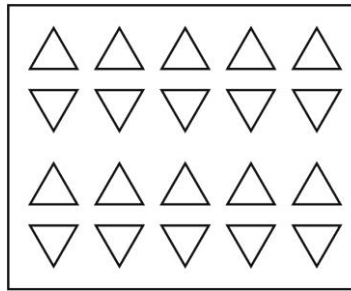
0.2	$\frac{1}{4}$
-----	---------------



Hyacinth draws a pattern of triangles.

She colours 70% of the triangles.

How many triangles does she colour?



_____14_____

9 Here are three statements about fractions and percentages.

Tick (✓) the statements that are correct.

Cross (✗) the statements that are incorrect and write the correct statement.

a $\frac{1}{100}$ is equal to 1% _____

10 $\frac{4}{5}$ is equal to 45% _____

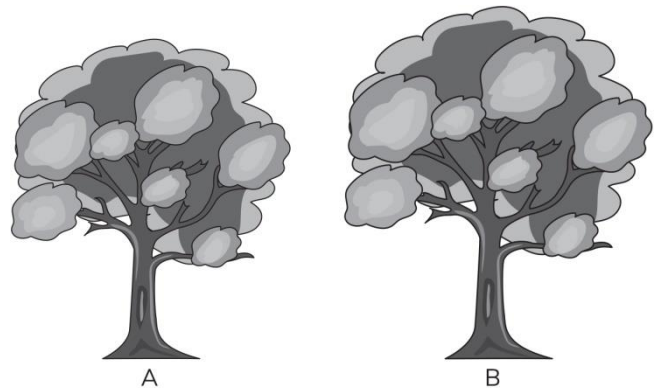
11 $\frac{5}{10}$ is equal to 5% _____

12 Here are two apple trees.

Tree A produces 40 kg of apples.

Tree B produces 50% more than tree A.

How many kilograms of apples does tree B produce?



_____40 +20 = 60 Kg_____

1 Look at the fraction and circle True or False.

$$\frac{7}{4}$$

b The numerator is four.

True **False**

2 The denominator is four. **True** False

3 This is a proper fraction. True **False**

4 You could express this as a mixed number $1\frac{3}{4}$. True **False**

5 This is an improper fraction. **True** False

6 This fraction is greater than 2. True **False**

7 This fraction is less than $\frac{8}{4}$. **True** False

8 $\frac{14}{8}$ is equivalent to this fraction. **True** False

Complete the table .

Question	Number	10%	20%	5%
a.	240	24	48	12
b.	520	52	104	26
c.	2600	260	520	130
d.	780	78	156	39
e.	60	6	12	3
f.	90	9	18	4.5

Find 240 increased by 10%

$$10\% \text{ of } 240 = \underline{24}$$

$$240 + \underline{24} = \underline{264}$$

Find 60 decreased by 20%

$$20\% \text{ of } 60 = \underline{12}$$

$$60 - \underline{12} = \underline{48}$$

