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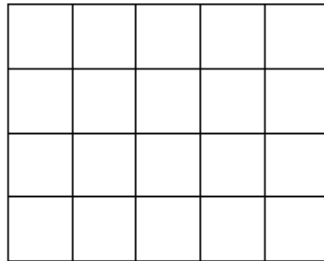The Next Generation
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Unit 6: Fractions and percentages

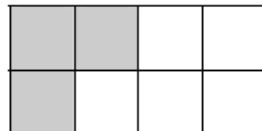**Learning Objective:**

> ➢ To find fraction of a whole of a shape, fractions as operators
> ➢ To understand equivalence of fractions.
> ➢ To simplify fractions.

1.

Shade $\frac{2}{5}$ of the shape.

What fraction of the shape below is shaded?

....

2. Write these fractions in their simplest form.

$$\frac{6}{12} = \text{..}$$

$$\frac{12}{15} = \text{..}$$

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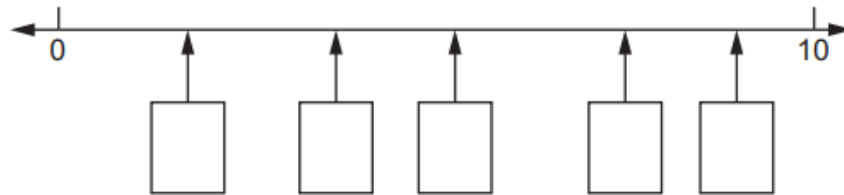School

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3. Here are three mixed fractions.

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

Write each number in its correct box on the number line.
You will not need all of the boxes.

4.

(a) Here are four fractions.

$$\frac{1}{50} \qquad \frac{50}{100} \qquad \frac{100}{50} \qquad \frac{1}{5}$$

Which fraction is equivalent to 0.5?

....

(b) What is $\frac{7}{10}$ of 650?

....

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5. Complete the given table of equivalent fractions, decimals and percentages.

Fraction	Decimal	Percentage
$\frac{1}{2}$	0.5	50%
	0.4	
$\frac{3}{4}$		

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

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

7. 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   10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

_____   _____   _____   _____   _____ $500

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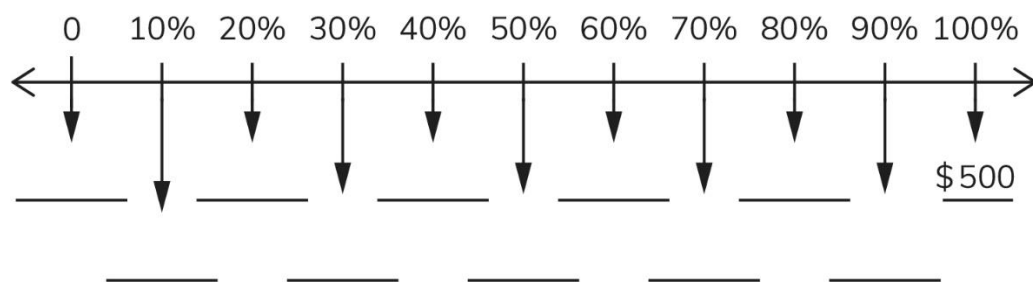
8. Write these numbers in order of size, starting with the smallest.

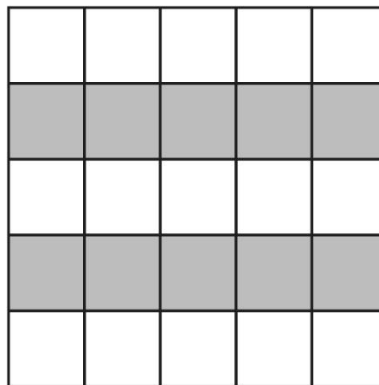$$\frac{1}{4} \qquad 0.14 \qquad 41\% \qquad \frac{2}{5} \qquad 0.26$$

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9.

The price of a coat is $45

In a sale the price is reduced by 15%.

Work out the price of the coat in the sale.

$ ....

10. This square is divided into smaller squares.

Write the percentage of the square that is shaded.

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

_____

Self-reflection

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I want my teacher to help me in:_____