

Varied Fluency

Step 19: Percentage of an Amount 1

National Curriculum Objectives:

Mathematics Year 6: (6R2) [Solve problems involving the calculation of percentages \[for example, of measures, and such as 15% of 360\] and the use of percentages for comparison](#)

Mathematics Year 6: (6F11) [Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts](#)

Differentiation:

Developing Questions to support finding percentages of an amount. Finding 10% and 50% of any number. No conversions required.

Expected Questions to support finding percentages of an amount. Finding 1%, 10%, 25% and 50% of any number. Some conversions required.

Greater Depth Questions to support finding percentages of an amount. Finding 1%, 10%, 25% and 50% of any number. Some conversions required and decimal numbers used.

More [Year 5 and Year 6 Decimals and Percentages](#) resources.

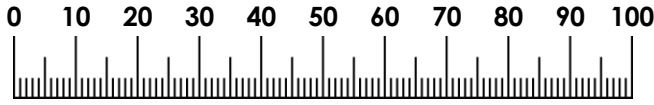
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Percentage of an Amount 1

1a. By looking from one number line to the other, find 50% of 200.



Total



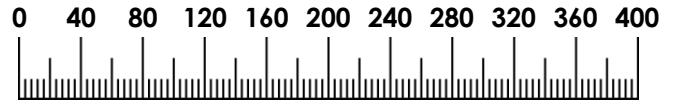
Percentage



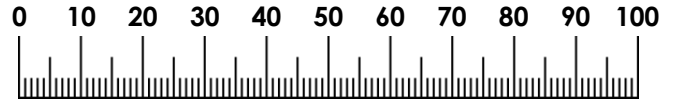
6 VF

Percentage of an Amount 1

1b. By looking from one number line to the other, find 10% of 400.



Total



Percentage



6 VF

2a. How many times does 10 fit into 100?
Use your answer to complete the sentence below.

To find ___% of 70, I can divide
70 by _____.



6 VF

2b. How many times does 50 fit into 100?
Use your answer to complete the sentence below.

To find ___% of 8, I can divide 8
by _____.



6 VF

3a. What value should replace the letter
in the calculation below?

$$A\% \text{ of } 14 = \frac{1}{2} \text{ of } 14 = 14 \div 2 = 7$$



6 VF

3b. What value should replace the letter
in the calculation below?

$$10\% \text{ of } 60 = \frac{1}{A} \text{ of } 60 = 60 \div 10 = 6$$



6 VF

4a. Complete the calculations.

$$50\% \text{ of } 150\text{m} = \underline{\quad\quad} \text{m}$$

$$10\% \text{ of } 150\text{kg} = \underline{\quad\quad} \text{kg}$$

$$10\% \text{ of } 210\text{ml} = \underline{\quad\quad} \text{ml}$$



6 VF

4b. Complete the calculations.

$$10\% \text{ of } 40\text{km} = \underline{\quad\quad} \text{km}$$

$$50\% \text{ of } 16\text{L} = \underline{\quad\quad} \text{L}$$

$$50\% \text{ of } 750\text{g} = \underline{\quad\quad} \text{g}$$



6 VF

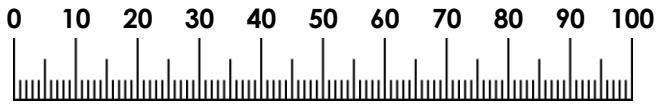
Percentage of an Amount 1

Percentage of an Amount 1

5a. By looking from one number line to the other, find 25% of 300.



Total

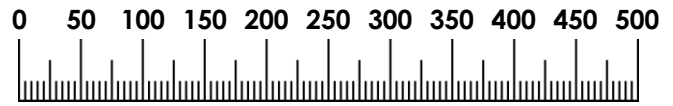


Percentage

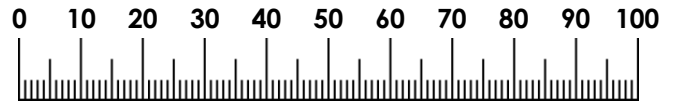


6 VF

5b. By looking from one number line to the other, find 1% of 500.



Total



Percentage



6 VF

6a. How many times does 1 fit into 100?
Use your answer to complete the sentence below.

To find ___% of 200, I can divide 200 by _____.



6 VF

6b. How many times does 10 fit into 100?
Use your answer to complete the sentence below.

To find ___% of 360, I can divide 360 by _____.



6 VF

7a. What value should replace each letter in the calculation below?

$$50\% \text{ of } 36 = \frac{A}{2} \text{ of } 36 = 36 \div B = 18$$



6 VF

7b. What value should replace each letter in the calculation below?

$$A\% \text{ of } 84 = \frac{1}{B} \text{ of } 84 = 84 \div 4 = 21$$



6 VF

8a. Complete the calculations.

$$1\% \text{ of } 1\text{km} = \underline{\hspace{2cm}} \text{ m}$$

$$10\% \text{ of } 2\text{kg} = \underline{\hspace{2cm}} \text{ g}$$

$$25\% \text{ of } 2\text{m} = \underline{\hspace{2cm}} \text{ cm}$$



6 VF

8b. Complete the calculations.

$$50\% \text{ of } 3\text{L} = \underline{\hspace{2cm}} \text{ ml}$$

$$1\% \text{ of } 430\text{cm} = \underline{\hspace{2cm}} \text{ mm}$$

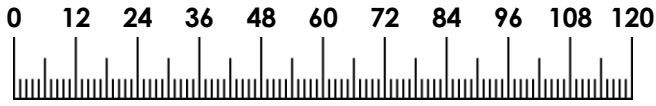
$$25\% \text{ of } 5\text{kg} = \underline{\hspace{2cm}} \text{ g}$$



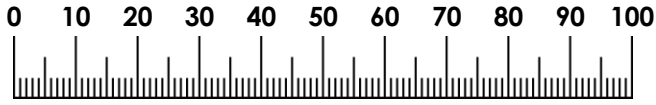
6 VF

Percentage of an Amount 1

9a. By looking from one number line to the other, find 1% of 120.



Total



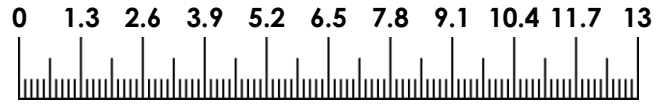
Percentage



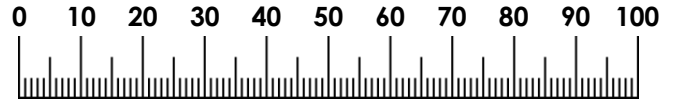
6 VF

Percentage of an Amount 1

9b. By looking from one number line to the other, find 25% of 13.



Total



Percentage



6 VF

10a. How many times does 25 fit into 100? Use your answer to complete the sentence below.

To find ___% of 6.4, I can divide 6.4 by _____, which gives the answer _____.



6 VF

10b. How many times does 50 fit into 100? Use your answer to complete the sentence below.

To find ___% of 25, I can divide 25 by _____, which gives the answer _____.



6 VF

11a. What value should replace each letter in the calculation below?

$$A\% \text{ of } 7.7 = \frac{1}{10} \text{ of } 7.7 = 7.7 \div B = C$$



6 VF

11b. What value should replace each letter in the calculation below?

$$1\% \text{ of } 45 = \frac{1}{A} \text{ of } 45 = 45 \div B = C$$



6 VF

12a. Complete the calculations.

$$10\% \text{ of } 526\text{km} = \underline{\hspace{2cm}} \text{ km}$$

$$25\% \text{ of } 0.25\text{L} = \underline{\hspace{2cm}} \text{ ml}$$

$$1\% \text{ of } 4.25\text{m} = \underline{\hspace{2cm}} \text{ mm}$$



6 VF

12b. Complete the calculations.

$$50\% \text{ of } 1.7\text{kg} = \underline{\hspace{2cm}} \text{ g}$$

$$1\% \text{ of } 199\text{L} = \underline{\hspace{2cm}} \text{ L}$$

$$25\% \text{ of } 3.22\text{m} = \underline{\hspace{2cm}} \text{ mm}$$



6 VF

Varied Fluency Percentage of an Amount 1

Developing

- 1a. 100
2a. 10 times. 'To find 10% of 70, I can divide 70 by 10.'
3a. $A = 50$
4a. 75m; 15kg; 21ml

Expected

- 5a. 75
6a. 100 times. 'To find 1% of 200, I can divide 200 by 100.'
7a. $A = 1$; $B = 2$
8a. 10m; 200g; 50cm

Greater Depth

- 9a. 1.2
10a. 4 times. 'To find 25% of 6.4, I can divide 6.4 by 4, which gives the answer 1.6.'
11a. $A = 10$; $B = 10$; $C = 0.77$
12a. 52.6km; 62.5ml; 42.5mm

Varied Fluency Percentage of an Amount 1

Developing

- 1b. 40
2b. 2 times. 'To find 50% of 8, I can divide 8 by 2.'
3b. $A = 10$
4b. 4km; 8L; 375g

Expected

- 5b. 5
6b. 10 times. 'To find 10% of 360, I can divide 360 by 10.'
7b. $A = 25$; $B = 4$
8b. 1500ml; 43mm; 1,250g

Greater Depth

- 9b. 3.25
10b. 2 times. 'To find 50% of 25, I can divide 25 by 2, which gives the answer 12.5.'
11b. $A = 100$; $B = 100$; $C = 0.45$
12b. 850g; 1.99L; 805mm