Varied Fluency
Step 4: 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.
Expected Questions to support finding percentages of an amount. Finding 1%,10%, 25% and 50% of any number.
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.

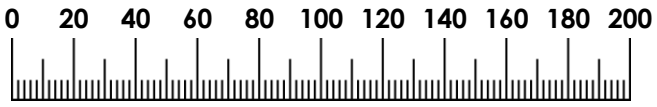
More Year 6 Percentages resources.

Did you like this resource? Don't forget to review it on our website.

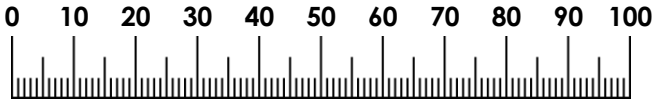
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Percentage of an Amount 1

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



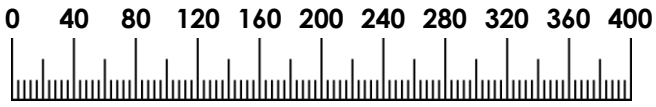
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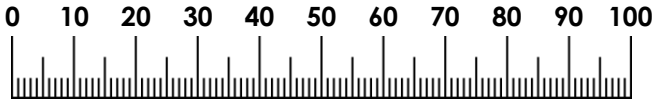
Percentage

D VF

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



Total



Percentage

D VF

2a. Complete the statement, then circle the answer to the calculation below.

To find 10%, I divide by _____, so what is 10% of 70?

700	35	7

D VF

2b. Complete the statement, then circle the answer to the calculation below.

To find 50%, I divide by _____. so what is 50% of 40?

20	2	4

D VF

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

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

D VF

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

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

D VF

4a. Complete the calculations.

50% of 150m = _____m

10% of 150kg = _____kg

10% of 210ml = _____ml

D VF

4b. Complete the calculations.

10% of 40km = _____km

50% of 16L = _____L

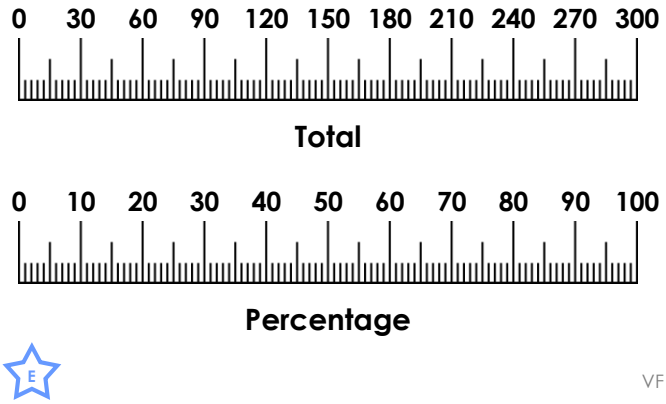
50% of 650g = _____g

D VF

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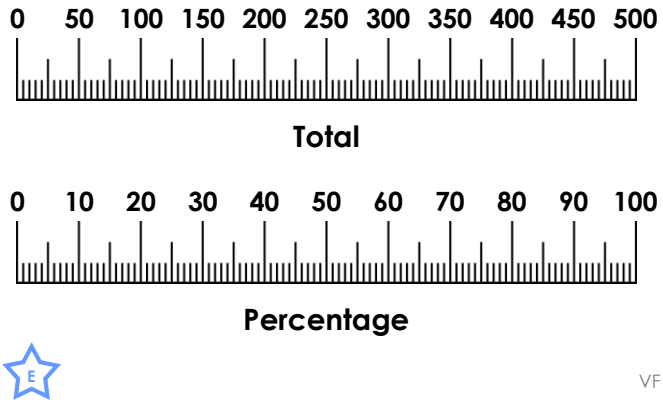
Percentage of an Amount 1

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



E VF

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



E VF

6a. Complete the statement, then circle the answer to the calculation below.

To find 1%, I divide by _____, so what is 1% of 200?

20	100	2

E VF

6b. Complete the statement, then circle the answer to the calculation below.

To find 25%, I divide by _____, so what is 25% of 360?

180	36	90

E VF

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

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

E VF

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

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

E VF

8a. Complete the calculations.

1% of 4,500m = _____m

50% of 390g = _____g

25% of 680cm = _____cm

E VF

8b. Complete the calculations.

50% of 782ml = _____ml

1% of 1,700cm = _____cm

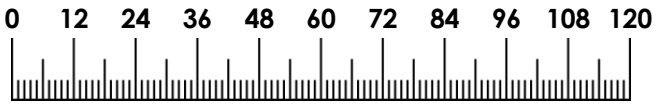
25% of 536kg = _____kg

E VF

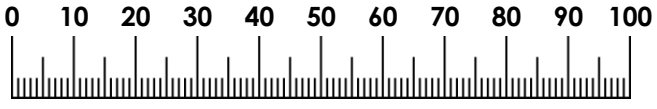
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Percentage of an Amount 1

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



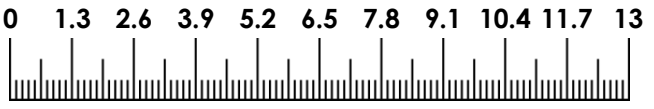
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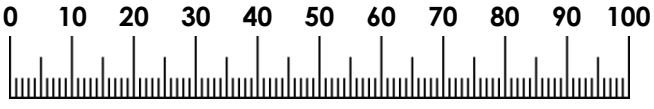
Percentage

GD VF

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



Total



Percentage

GD VF

10a. Use the numbers below to make the statement correct.

To find 25% , I can divide by _____, or divide by _____ then multiply by _____.

8	4	2

GD VF

10b. Use the numbers below to make the statement correct.

To find 10% , I can divide by _____, or divide by _____ then multiply by _____.

2	10	20

GD VF

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

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

GD VF

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

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

GD VF

12a. Complete the calculations.

_____% of 526km = 52.6km

25% of 0.25L = _____ml

1% of 4.25m = _____mm

GD VF

12b. Complete the calculations.

50% of 1.7kg = _____g

_____% of 199L = 1.99L

25% of 3.22m = _____mm

GD VF

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Varied Fluency
Percentage of an Amount 1

Developing

1a. 100
2a. 10; 10% of 70 = 7
3a. A = 50
4a. 75m; 15kg; 21ml

Expected

5a. 75
6a. 100; 1% of 200 = 2
7a. A = 1; B = 2
8a. 45m; 195g; 170cm

Greater Depth

9a. 1.2
10a. To find 25% , I can divide by 4, or divide by 8 and multiply by 2.
11a. A = 10; B = 10; C = 0.77
12a. 10%; 62.5ml; 42.5mm

Varied Fluency
Percentage of an Amount 1

Developing

1b. 40
2b. 2; 50% of 40 = 20
3b. A = 10
4b. 4km; 8L; 325g

Expected

5b. 5
6b. 4; 25% of 360 = 90
7b. A = 25; B = 4
8b. 391ml; 17cm; 134kg

Greater Depth

9b. 3.25
10b. To find 10% , I can divide by 10, or divide by 20 then multiply by 2.
11b. A = 100; B = 100; C = 0.45
12b. 850g; 1%; 805mm

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