

# Percentage of an Amount 1

1. Draw a line to match each calculation with the correct visual representation and answer.

A.	10% of 30	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td colspan="10" style="text-align: center;">600</td></tr> <tr><td colspan="5" style="text-align: center;">50%</td><td colspan="5" style="text-align: center;">50%</td></tr> </table>	600										50%					50%					30
600																							
50%					50%																		
B.	50% of 600	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td colspan="10" style="text-align: center;">30</td></tr> <tr><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td></tr> </table>	30										10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	3
30																							
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%														
C.	10% of 300	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td colspan="10" style="text-align: center;">300</td></tr> <tr><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td><td>10%</td></tr> </table>	300										10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	300
300																							
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%														



VF  
HW/Ext

2. Decide whether the statements below are correct. Correct if necessary.

A. 50% of 40 is equivalent to  $\frac{1}{2}$  of 40. To calculate the answer, I must divide 40 by 5. The answer is 8.

B. 10% of 500 is equivalent to  $\frac{1}{10}$  of 500. To calculate the answer, I must divide 500 by 10. The answer is 5.

C. 50% of 30 is equivalent to  $\frac{1}{2}$  of 30. To calculate the answer, I must divide 30 by 2. The answer is 15.



VF  
HW/Ext

3. A pair of roller skates normally cost £90. There is currently 10% off everything in the shop.

Charlie says,



I think the skates will cost £81 in the sale.

Sasha says,



I think the skates will cost £9 in the sale.

Who is correct? Prove it.



RPS  
HW/Ext

# Percentage of an Amount 1

4. Draw a line to match each calculation with the correct visual representation and answer.

A.	50% of 400cm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="4" style="text-align: center;">4m</td></tr> <tr><td style="text-align: center;">25%</td><td style="text-align: center;">25%</td><td style="text-align: center;">25%</td><td style="text-align: center;">25%</td></tr> </table>	4m				25%	25%	25%	25%	40cm												
4m																							
25%	25%	25%	25%																				
B.	25% of 4m	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="10" style="text-align: center;">400cm</td></tr> <tr><td style="text-align: center;">10%</td><td style="text-align: center;">10%</td></tr> </table>	400cm										10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	1m
400cm																							
10%	10%	10%	10%	10%	10%	10%	10%	10%	10%														
C.	10% of 400cm	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td colspan="2" style="text-align: center;">400cm</td></tr> <tr><td style="text-align: center;">50%</td><td style="text-align: center;">50%</td></tr> </table>	400cm		50%	50%	200cm																
400cm																							
50%	50%																						



VF  
HW/Ext

5. Decide whether the statements below are correct. Correct if necessary.

- A. 1% of 600 is equivalent to  $\frac{1}{100}$  of 600. To calculate the answer, I must divide 600 by 100. The answer is 60.
- B. 50% of 70 is equivalent to  $\frac{1}{2}$  of 70. To calculate the answer, I must divide 70 by 2. The answer is 35.
- C. 25% of 164 is equivalent to  $\frac{1}{4}$  of 164. To calculate the answer, I must divide 164 by 2. The answer is 82.



VF  
HW/Ext

6. The front suspension, turbo-boost bike normally costs £460. There is currently 25% off everything in the shop.

Aito says,



I think the bike will cost £115 in the sale.

Polly says,



I think the bike will cost £345 in the sale.

Who is correct? Prove it.



RPS  
HW/Ext

## Percentage of an Amount 1

7. Complete each of the statements below.

A. 25% of 6.48m is equivalent to  $648\text{cm} \div \underline{\quad}$  =  $\underline{\quad}\text{cm}$

B. 50% of 0.87L is equivalent to  $\underline{\quad}\text{ml} \div 2$  =  $\underline{\quad}\text{ml}$

C. 1% of 59cm is equivalent to  $590\text{mm} \div \underline{\quad}$  =  $\underline{\quad}\text{mm}$



VF  
HW/Ext

8. Decide whether the statements below are correct. Correct if necessary.

A. 25% of 2.8m is equivalent to  $\frac{1}{4}$  of 280cm. To calculate the answer, I must divide 280cm by 4. The answer is 70cm.

B. 1% of 7km is equivalent to  $\frac{1}{100}$  of 7,000m. To calculate the answer, I must divide 7,000m by 10. The answer is 700m

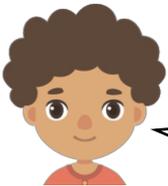
C. 50% of 730p is equivalent to  $\frac{1}{2}$  of £73.00. To calculate the answer, I must divide £73.00 by 2. The answer is £36.50.



VF  
HW/Ext

9. The Epic Wipeout Skateboard normally costs £581. There is currently 1% off everything in the shop.

Albie says,



I think the skateboard will cost £522.90 in the sale.

Lacey says,



I think the skateboard will cost £575.19 in the sale.

Who is correct? Prove it.



RPS  
HW/Ext

## Homework/Extension Percentage of an Amount 1

### Developing

1.  $A = 3$ ,  $B = 300$ ,  $C = 30$
2. A is incorrect as you need to divide by 2 when finding 50% of an amount.  $40 \div 2 = 20$ . B is incorrect as  $500 \div 10 = 50$ . C is correct.
3. Charlie is correct. 10% of £90 = £9. This means that there will be £9 off in the sale.  $£90 - £9 = £81$

### Expected

4.  $A = 200\text{cm}$ ,  $B = 1\text{m}$ ,  $C = 40\text{cm}$
5. A is incorrect as  $600 \div 100 = 6$ . B is correct. C is incorrect as you need to divide by 4 when finding 25% of an amount.  $164 \div 4 = 41$ .
6. Polly is correct. 25% of £460 = £115. This means that there will be £115 off in the sale.  $£460 - £115 = £345$

### Greater Depth

7.  $A = 648\text{cm} \div 4 = 162\text{cm}$   
 $B = 870\text{ml} \div 2 = 435\text{ml}$   
 $C = 590\text{mm} \div 100 = 5.9\text{mm}$
8. A is correct. B is incorrect as you need to divide by 100 when finding 1% of an amount.  $7,000\text{m} \div 100 = 70\text{m}$ . C is incorrect as 730p is equivalent to £7.30.  $£7.30 \div 2 = £3.65$
9. Lacey is correct. 1% of £581 = £5.81. This means that there will be £5.81 off in the sale.  $£581 - £5.81 = £575.19$