

Name:

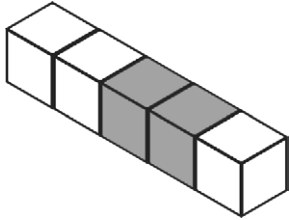
Date:



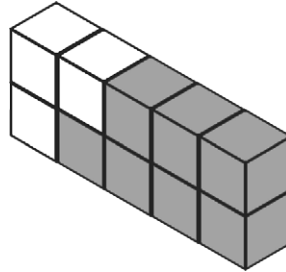
## Key Stage 2 Maths Practice Reasoning: Percentage and Decimal Equivalents

For each model, write the fraction and percentage of the cubes that are black.

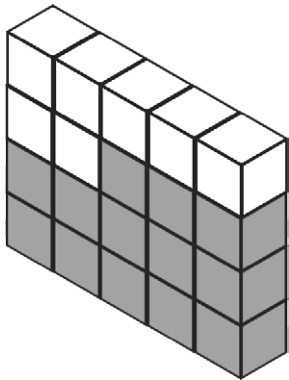
1.



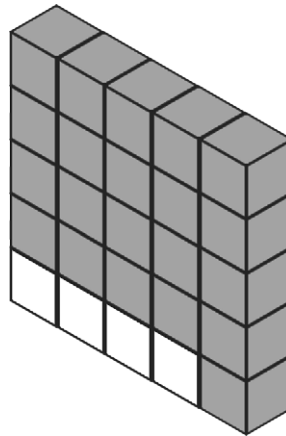
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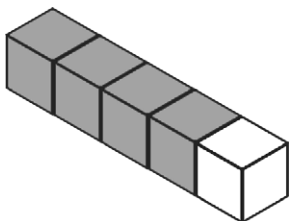
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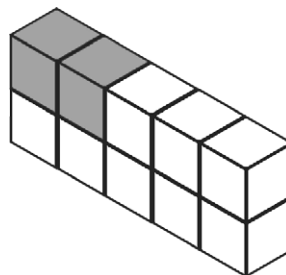
4.



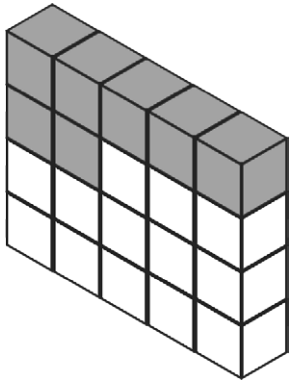
5.



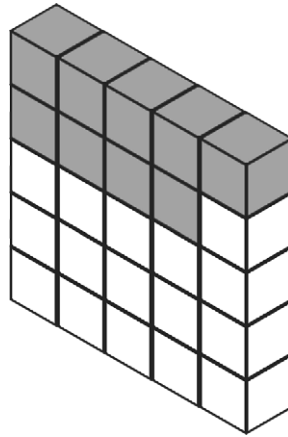
6.



7.



8.



Calculate the values of the following, and order from smallest to largest.

9.

a) 20% of 25

b)  $\frac{1}{2}$  of 24

c)  $\frac{2}{5}$  of 10

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smallest

largest

10.

a)  $\frac{4}{5}$  of 35

b) 75% of 32

c)  $\frac{1}{2}$  of 52

--	--	--

smallest

largest

11.

a) 25% of 20

b) 80% of 10

c)  $\frac{1}{20}$  of 80

--	--	--

smallest

largest

12.

a)  $\frac{1}{25}$  of 75

b)  $\frac{2}{5}$  of 15

c) 40% of 10

--	--	--

smallest

largest

13.

a) 12% of 50

b)  $\frac{1}{4}$  of 28

c)  $\frac{4}{5}$  of 10

--	--	--

smallest

largest

14.

a) 50% of 48

b)  $\frac{1}{5}$  of 125

c) 30% of 70

--	--	--

smallest

largest

15.

a)  $\frac{4}{5}$  of 45

b) 25% of 140

c) 60% of 55

--	--	--

smallest

largest

16.

a) 36% of 125

b)  $\frac{2}{5}$  of 105

c)  $\frac{3}{4}$  of 64

--	--	--

smallest

largest

Complete the table to match the fractions, decimal fractions and percentages.

	Fraction	Decimal Fraction	Percentage
17.			40%
18.		0.50	
19.	$\frac{1}{4}$		
20.			80%
21.		0.30	
22.	$\frac{1}{5}$		
23.		0.75	
24.	$\frac{7}{25}$		

Shade the following shapes so that the given fraction, decimal fraction or percentage is shaded.

25.

80% = 

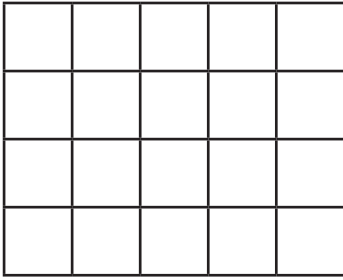
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26.

$\frac{2}{5}$  = 

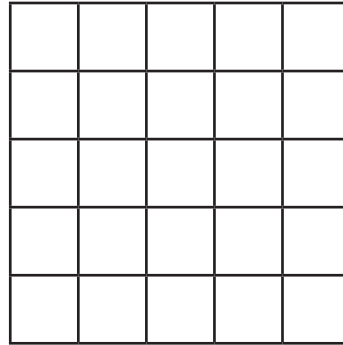

27.

$0.15 =$



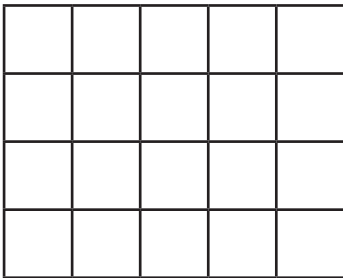
28.

$92\% =$



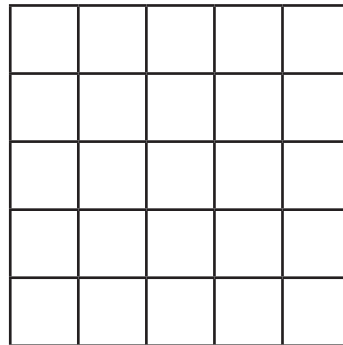
29.

$\frac{3}{10} =$



30.

$12\% =$



# Answer Sheet: Key Stage 2 Maths Practice Reasoning:

## Percentage and Decimal Equivalents



question	answer	notes
1	Fraction: $\frac{2}{5}$ Percentage: <b>40%</b>	
2	Fraction: $\frac{7}{10}$ Percentage: <b>70%</b>	
3	Fraction: $\frac{13}{20}$ Percentage: <b>65%</b>	
4	Fraction: $\frac{21}{25}$ Percentage: <b>84%</b>	
5	Fraction: $\frac{4}{5}$ Percentage: <b>80%</b>	
6	Fraction: $\frac{1}{5}$ Percentage: <b>20%</b>	
7	Fraction: $\frac{7}{20}$ Percentage: <b>35%</b>	
8	Fraction: $\frac{9}{25}$ Percentage: <b>36%</b>	
9	a = <b>5</b> b = <b>12</b> c = <b>4</b> Order = <b>C, A, B</b>	
10	a = <b>28</b> b = <b>24</b> c = <b>26</b> Order = <b>B, C, A</b>	
11	a = <b>5</b> b = <b>8</b> c = <b>4</b> Order = <b>C, A, B</b>	
12	a = <b>3</b> b = <b>6</b> c = <b>4</b> Order = <b>A, C, B</b>	
13	a = <b>6</b> b = <b>7</b> c = <b>8</b> Order = <b>A, B, C</b>	
14	a = <b>24</b> b = <b>25</b> c = <b>21</b> Order = <b>C, A, B</b>	
15	a = <b>36</b> b = <b>35</b> c = <b>33</b> Order = <b>C, B, A</b>	

question	answer			notes																																				
16	a = <b>45</b> b = <b>42</b> 4 = <b>48</b> Order = <b>B, A, C</b>																																							
	<table border="1"> <thead> <tr> <th></th> <th>Fraction</th> <th>Decimal Fraction</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>17.</td> <td><math>\frac{2}{5}</math></td> <td><b>0.40</b></td> <td>40%</td> </tr> <tr> <td>18.</td> <td><math>\frac{1}{2}</math></td> <td>0.50</td> <td><b>50%</b></td> </tr> <tr> <td>19.</td> <td><math>\frac{1}{4}</math></td> <td><b>0.25</b></td> <td><b>25%</b></td> </tr> <tr> <td>20.</td> <td><math>\frac{4}{5}</math></td> <td><b>0.80</b></td> <td>80%</td> </tr> <tr> <td>21.</td> <td><math>\frac{3}{10}</math></td> <td>0.30</td> <td><b>30%</b></td> </tr> <tr> <td>22.</td> <td><math>\frac{1}{5}</math></td> <td><b>0.20</b></td> <td><b>20%</b></td> </tr> <tr> <td>23.</td> <td><math>\frac{3}{4}</math></td> <td>0.75</td> <td><b>75%</b></td> </tr> <tr> <td>24.</td> <td><math>\frac{7}{25}</math></td> <td><b>0.28</b></td> <td><b>28%</b></td> </tr> </tbody> </table>				Fraction	Decimal Fraction	Percentage	17.	$\frac{2}{5}$	<b>0.40</b>	40%	18.	$\frac{1}{2}$	0.50	<b>50%</b>	19.	$\frac{1}{4}$	<b>0.25</b>	<b>25%</b>	20.	$\frac{4}{5}$	<b>0.80</b>	80%	21.	$\frac{3}{10}$	0.30	<b>30%</b>	22.	$\frac{1}{5}$	<b>0.20</b>	<b>20%</b>	23.	$\frac{3}{4}$	0.75	<b>75%</b>	24.	$\frac{7}{25}$	<b>0.28</b>	<b>28%</b>	
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