

Name:

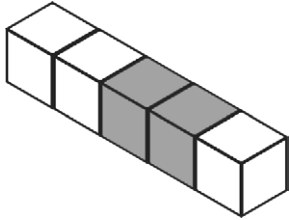
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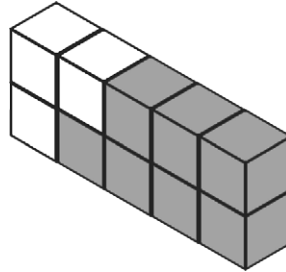
Key Stage 2 Maths Practice Reasoning: Percentage and Decimal Equivalents

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

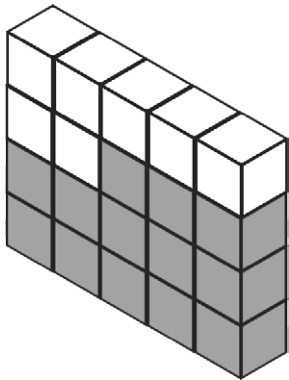
1.



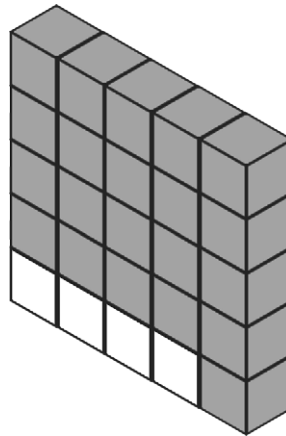
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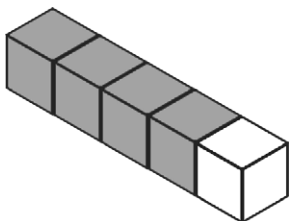
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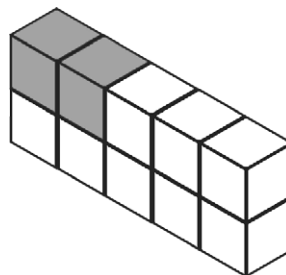
4.



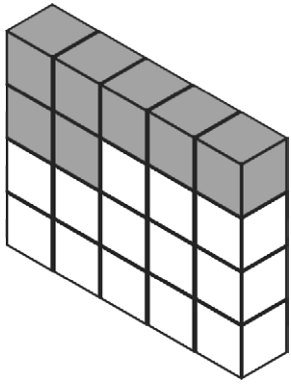
5.



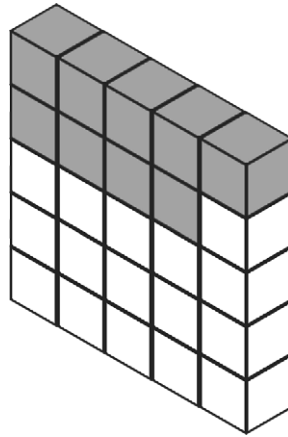
6.



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% =

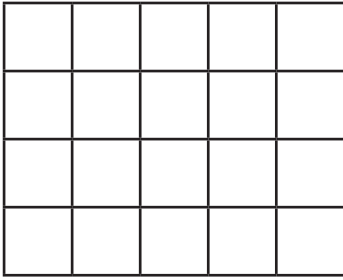
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26.

$\frac{2}{5}$ =

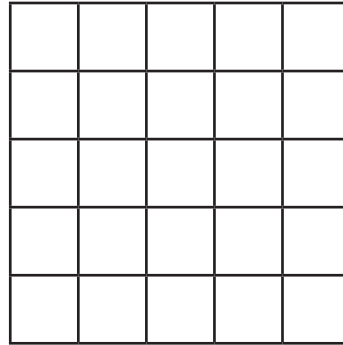
27.

0.15 =



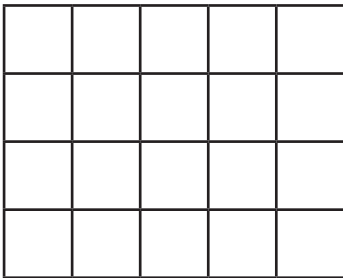
28.

92% =



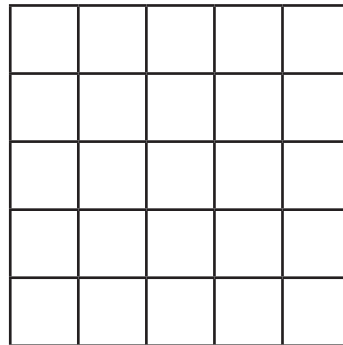
29.

$\frac{3}{10}$ =



30.

12% =



Answer Sheet: Key Stage 2 Maths Practice Reasoning: Percentage and Decimal Equivalents



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

question	answer			notes																																				
16	a = 45 b = 42 4 = 48 Order = B, A, C																																							
	<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>$\frac{2}{5}$</td> <td>0.40</td> <td>40%</td> </tr> <tr> <td>18.</td> <td>$\frac{1}{2}$</td> <td>0.50</td> <td>50%</td> </tr> <tr> <td>19.</td> <td>$\frac{1}{4}$</td> <td>0.25</td> <td>25%</td> </tr> <tr> <td>20.</td> <td>$\frac{4}{5}$</td> <td>0.80</td> <td>80%</td> </tr> <tr> <td>21.</td> <td>$\frac{3}{10}$</td> <td>0.30</td> <td>30%</td> </tr> <tr> <td>22.</td> <td>$\frac{1}{5}$</td> <td>0.20</td> <td>20%</td> </tr> <tr> <td>23.</td> <td>$\frac{3}{4}$</td> <td>0.75</td> <td>75%</td> </tr> <tr> <td>24.</td> <td>$\frac{7}{25}$</td> <td>0.28</td> <td>28%</td> </tr> </tbody> </table>				Fraction	Decimal Fraction	Percentage	17.	$\frac{2}{5}$	0.40	40%	18.	$\frac{1}{2}$	0.50	50%	19.	$\frac{1}{4}$	0.25	25%	20.	$\frac{4}{5}$	0.80	80%	21.	$\frac{3}{10}$	0.30	30%	22.	$\frac{1}{5}$	0.20	20%	23.	$\frac{3}{4}$	0.75	75%	24.	$\frac{7}{25}$	0.28	28%	
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28	23 squares shaded																																							
29	6 squares shaded																																							
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