Revision 2	Date	Topic	
	wk beg. 10.05.21	Percentages &	
		percentage reduction	

Time: 30 mins

Numbers in blue denote total mark awarded for each question.

Total mark: /30

1. Complete the table below:

Percentage	Fraction (in most simple form)
a. 70%	7/ 10
b. 50%	支
c. 33 ½ %	1/ 3
d. 80%	4 5
e. 30%	3/ 10
f. 10%	-0

2. Find 20 % of 50.

$$20\% : \frac{1}{5}$$

3. Find 25 % of 48.

6

4. Find 60 % of 45.
$$\frac{3}{60} = \frac{3}{5}$$

$$\frac{3}{5} \text{ of } 45 = 45 \div 5 \div 9$$

$$9 \times 3 = 27$$

5. Reduce 20 by 25%.

$$25\% \text{ of } 20 = 25\% = \frac{1}{4}$$
 $20 = 4 = 5$

6. Reduce 50 by 10%.

8. Reduce 45 by 40%.

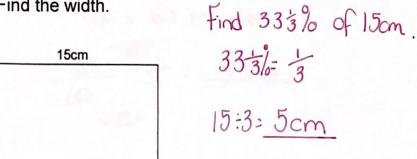
$$40\% = \frac{40 \div 20}{100} \stackrel{?}{=} \frac{2}{5}$$

$$45 \div 5 = 9$$

$$9 \times 2 = 18$$

2





10. Use your measurements to find the perimeter AND area of the rectangle above. REMEMBER TO INCLUDE UNITS OF MEASRUEMENT IN YOUR ANSWER.

Area: length
$$\times$$
 width = 15 $\frac{\times^2 5}{7.5 \text{ cm}^2}$

11. Find the difference between 80% of 55 and 25% of 16.

$$80\% = \frac{4}{5}$$

$$25\% = \frac{1}{4}$$

$$16 \div 4 = 4$$

$$11 \times 4 = 44$$

$$44 - 4 = 40$$

20 is
$$\frac{25}{80}$$
 % of 80.

13. What percentage of an hour is 20 minutes?

$$\frac{20^{20}}{60} = \frac{33\frac{1}{3}\%}{3} = \frac{33\frac{1}{3}\%}{3}$$

14. On Monday, Amber runs 1 mile in 15 minutes. On Tuesday, she runs new mile in 20% of the time. How long does it take Amber to run 1 mile on Tuesday?

15. In a group of 250 people 70% are male. How many men are in the group?

16. Look at the shapes below. Circle the shape that shows 75%?

$$75\% = \frac{3}{4}$$



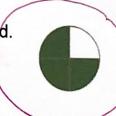


b.



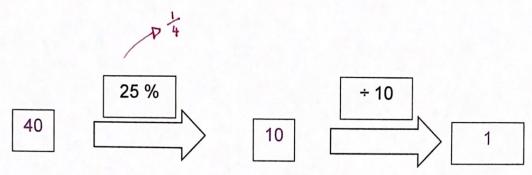
C.





1

17. Look at the function machine below. An example has been done for you.



Complete the table below:

IN	OUT
80	80:4= 20:10 = 2
1 600	1600:4:400:10: 40
6×10:60 60×4: 240	6 7 working neurose
30×10:300 300×4= 1200	30

4

3

18. In a shop there is a 20% sale on all items. Complete the table below by writing in the price of the items after they have been reduced by 20%. Use the space below to show your working out.

Item	Price	Sale Price
T- Shirt	£15	£ 12
Jeans	£35	£ 28
Trainers	£75	£ 60

$$\frac{1}{5}$$
 of $35:35:9:7$ $35-7:28$

$$\frac{1}{5}$$
 of $75:5$ $75-15:60$