Key stage 2

Mathematics

Paper 2: reasoning

Ι. Expand these brackets

c.
$$7(4-2x-y) = \dots$$

Circle the odd one out. 11.

$$6w + 20$$

$$4(2w + 5)$$

$$8w + 20$$

$$4(2w + 5)$$
 8w + 20 6w + 11 + 2w + 9



- Circle the letter of the correct answer. III.
 - 1. Which is the largest number in each group?

2. Circle the smaller measurement in each pair.



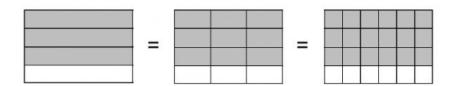
. Allange in		measorem	ents from smallest
1.5m	120cm	12m	
4.5kg	5000g,	800g _	
0.5L	250mL	0.6L	
range the d	lecimals fro	m greatest	to least.
1.8	1.08	0.18	
0.38	0.56	0.4	
2.6	6.2	0.26	
Names Sarah Jonna Lorna Fariza	Dist 12. 13	. Here is the ance 46m .3m .9m	record of their dis
Aiza	13	.9m	

4. Which distances can be rounded to 13? List all _____

2. Who ran the shortest distance?

3. Who ran 10 meters less than Aiza?

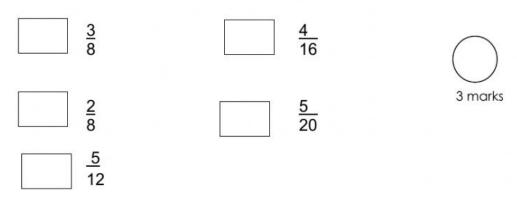
V. A. These diagrams show three equivalent fractions.



Write the missing values.

$$\frac{3}{4}$$
 = $\frac{9}{24}$ = $\frac{24}{2 \text{ marks}}$

B. Tick 3 fractions that are equivalent to 1/4.



C. Put a ring around the fraction that simplify to 3/4.



$$\frac{9}{12}$$
 $\frac{31}{41}$ $\frac{6}{10}$ $\frac{27}{33}$ $\frac{24}{36}$

$$\frac{24}{36}$$

VI. Fractions

- A. Simplify the following fractions.
- $1. \frac{2}{6} =$ ____



- $2. \frac{5}{10} =$ _____
- 3. $\frac{4}{12}$ =____
 - B. Change Mixed fractions to improper fraction
 - 1. $3\frac{1}{4} =$ ____



2. $1\frac{1}{3} =$ _____

- 3. $1\frac{1}{5} =$ _____
- C. Change the improper fraction to mixed number.
- 1. <u>27</u>= _____



2. <u>32</u>= _____

3. <u>18</u>= _____

VII. Here are the temperatures in four cities at midnight and at midday.

	Temperature			
City	At midnight	At midday		
Paris	−5 °C	-3 °C		
Oslo	−15 °C	-7 °C		
Rome	5°C	11°C		
Warsaw	-9 °C	4 °C		



Answer the following questions.

- 1. Which city was 6 degrees colder at midnight than at midday?
- 2. At **midnight**, how many degrees colder was Paris than Rome?
- 3. What is the lowest temperature recorded? _____
- 4. By how much did the temperature increase in Warsaw from midnight to midday? ______
- 5. Which city has the coldest temperature at midday? _____