Fractions
End-of-Strand Assessment

Name: _____ Date: _____

1. Give the value of the digit 9 in each of these numbers as both a decimal and a fraction.

Number	Decimal	Fraction
1.98		
18.059		
0.094		

2 marks

2. a) Find all of the amounts that are equivalent to $\frac{2}{5}$ and circle them.

20% $\frac{20}{100}$ 0.4

0.6 $\frac{4}{10}$ 40%

b) Find all of the amounts that are equivalent to 0.8 and circle them.

$\frac{80}{100}$ 8% $\frac{8}{10}$

$\frac{1}{8}$ 80% $\frac{8}{100}$

2 marks

3. Megan and Alfie have both eaten a fraction of their chocolate bars.

I have eaten $\frac{2}{3}$ of my chocolate bar.

I have eaten $\frac{3}{5}$ of my chocolate bar.

Megan   **Alfie**

Which child has eaten the greater fraction of their chocolate bar? Explain your answer.

_____

_____

_____

1 mark

4. Look at the place value chart below.

H	T	O	•	t	h	th
			•	3	5	

This place value chart shows the answer to 135 ÷ 1000. Is this true or false? Tick one box to show your answer.

true ☐   false ☐
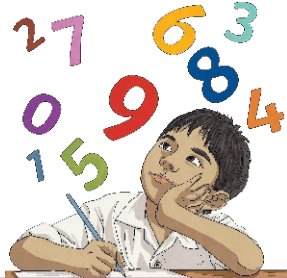
1 mark

5. Calculate the following.

13 ÷ 10 = ☐

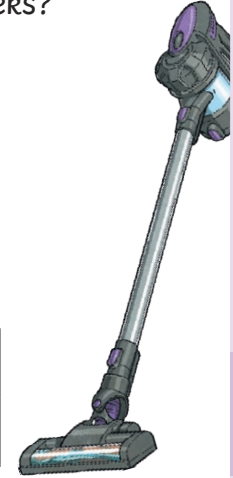0.505 × 1000 = ☐

1.45 × 100 = ☐

3 ÷ 1000 = ☐

2 marks

6. Tomek earns £9.85 every week for doing chores around the house. How much will he earn in 8 weeks?

£

1 mark

7. Is Meeta correct? Explain your answer fully.

$\frac{15}{20}$ in its simplest form is $\frac{3}{5}$.

_____

_____

_____

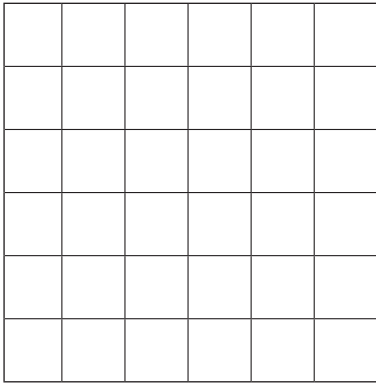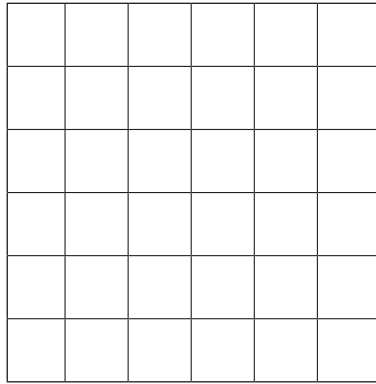**1 mark**

8. Calculate the following. Give your answer in the simplest form.

a) $\frac{3}{4} \times \frac{1}{2} = \frac{\square}{\square}$

b) $\frac{2}{5} \times \frac{3}{8} = \frac{\square}{\square}$

c) $\frac{5}{6} \times \frac{4}{7} = \frac{\square}{\square}$
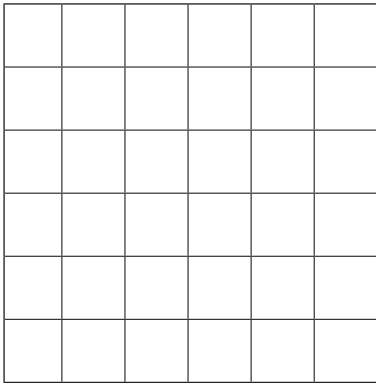
9. Harry and his friends are baking cakes. They bake 3 cakes and decide to divide them between all 8 children equally.

How much cake does each person get? Give your answer as both a fraction and a decimal.

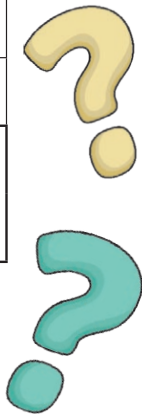fraction: $\frac{\square}{\square}$ decimal: $\boxed{}$

10. Calculate the following.

a) Give your answers as decimals.

$\frac{1}{5}$ + 0.7 = ☐ $\frac{3}{4}$ + 0.2 = ☐ $1\frac{1}{2}$ − 0.2 = ☐

b) Give your answers as fractions, in their simplest form.

$\frac{3}{10}$ + $\frac{1}{2}$ = ☐/☐ $\frac{5}{8}$ + $\frac{1}{4}$ = ☐/☐ $3\frac{8}{12}$ − $1\frac{1}{3}$ = ☐ ☐/☐

11. a) Emily drinks $\frac{1}{3}$ of her bottle of water and James drinks $\frac{7}{12}$ of his bottle. What fraction of a whole bottle of water did they drink in total?

☐/☐

b) Usman drinks 1 whole bottle of water and $\frac{3}{4}$ of another bottle. How much more does Usman drink than Emily and James drank in total? Give your answer as a simplified fraction.

☐/☐

12. Yan is running a long distance race and has run 7.6km so far. She has completed $\frac{1}{4}$ of the total distance of the race. How long is the race? Give your answer as a decimal.

km

13. Calculate the following. Give your answer as a decimal with up to 2 decimal places:
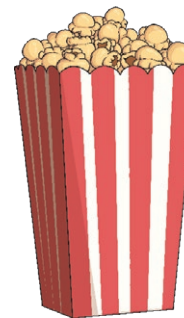
a) 315 ÷ 6

b) 834 ÷ 8

14. Elena buys 3 fruit smoothies. Each smoothie is the same price. They came to £9.96 in total. What is the cost of 1 smoothie?

£

15. Ibrahim eats $\frac{2}{3}$ of a box of popcorn. His 2 friends share the rest of the box equally. What fraction of the whole box of popcorn will each of his friends get?

16. Place these fractions correctly on the number line.

$$\frac{4}{5} \qquad \frac{4}{10} \qquad \frac{7}{5} \qquad 1\frac{8}{10}$$

0   1   2

2 marks

17. A jar of jam has a mass of 762 grams. 12 equally sized spoonfuls of jam are taken from the jar until it is empty. To the nearest whole gram, what is the mass of each spoonful of jam?

grams

2 marks

Total 27 marks