FOUNDATION & HIGHER

SAME AT BOTH TIERS

Name ..... Class .....

R3: Fractions of quantities

Express one quantity as a fraction of another

20 marks · 25 minutes · Non-calculator

1) Write 15 as a fraction of 40. Give your answer in its simplest form.

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[Question 1: 1 marks]

2) Write 45 minutes as a fraction of 2 hours. Give your answer in its simplest form.

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[Question 2: 2 marks]

3) Write 60 as a fraction of 25. Give your answer in its simplest form.

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[Question 3: 1 marks]

4) What fraction of 1 kg is 350 g? Give your answer in its simplest form.

.....

[Question 4: 2 marks]

5) There are 32 students in a class and 12 of them walk to school. What fraction of the class do not walk to school?

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[Question 5: 2 marks]

6) Write 75 cm as a fraction of 3 m. Give your answer in its simplest form.

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[Question 6: 2 marks]

7) Sam scored 42 out of 60 in a test. Jo scored 34 out of 50 in a different test. Who scored the greater fraction of the marks? Show your working.

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[Question 7: 2 marks]

8) Write 4 hours as a fraction of one day.

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[Question 8: 1 marks]

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9) Write £2.40 as a fraction of £1.50. Give your answer in its simplest form.

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[Question 9: 2 marks]

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10) $x = 18$ and $y = 24$

(a) Write x as a fraction of y.

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(1)

(b) Write y as a fraction of x.

.....

(1)

[Question 10: 2 marks]

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11) In a car park there are 120 cars. 45 are red and 30 are blue. What fraction of the cars are neither red nor blue?

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[Question 11: 2 marks]

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12) Write 0.8 kg as a fraction of 1200 g. Give your answer in its simplest form.

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[Question 12: 1 marks]

End of paper – 20 marks in total

Answers and brief mark scheme

Q	Answer	Method / notes
1	$\frac{3}{8}$	B1.
2	$\frac{3}{8}$	$\frac{45}{120}$ (M1); A1.
3	$\frac{12}{5}$	B1.
4	$\frac{7}{20}$	$\frac{350}{1000}$ (M1); A1.
5	$\frac{5}{8}$	$\frac{20}{32}$ (M1); A1.
6	$\frac{1}{4}$	$\frac{75}{300}$ (M1); A1.
7	Sam	0.7 and 0.68 or common denominator (M1); Sam (A1).
8	$\frac{1}{6}$	B1.
9	$\frac{8}{5}$	$\frac{240}{150}$ (M1); A1.
10	(a) $\frac{3}{4}$ (b) $\frac{4}{3}$	B1 each.
11	$\frac{3}{8}$	$\frac{45}{120}$ (M1); A1.
12	$\frac{2}{3}$	B1.