

Ratio and Proportion Revision Mat

Equivalent Fractions, Decimals and Percentages

1) Complete the table below.

Fraction	Decimal	Percentage
$\frac{1}{2}$		
	0.6	
		15%
$\frac{1}{4}$		

2) Would you rather have $\frac{3}{4}$, 70% or 0.72 of a pizza? Why?

Simplify Ratio

1) Simplify 16 : 8

2) Simplify 11 : 22

3) Simplify 24 : 12

4) Simplify 50p : £2.50

5) Simplify 4 : 8 : 12

6) There are 32 pupils in a class. 20 of them are girls. What is the ratio of boys to girls in its simplest form?

Calculating with Decimals

1) Which is the biggest?

3.013

3.0014

3.0013

2) Calculate $2.5 + 0.37$?

3) Three friends compare their heights. Who is the tallest?

Anna is 1.58m

Chris is 1.62m

Drew is 1.47m

4) Calculate the answer to 4.8 divided by 3

5) £8.40 is shared equally between three brothers. How much does each brother receive?

6) Aisha buys a magazine for £1.25 and chocolates for £2.99. She pays with a £10 note. How much change does she receive?

Divide into a Ratio

1) Paul is making grey paint. He mixes black and white paint in the ratio 1 : 3. He makes 35 litres of grey paint. How much white paint does he use?

2) The ratio of adults to children in the sports club is 5 : 2. There are 120 adults in the club. How many children are there?

3) Tim, Shula and Carol share the running costs of the car in the ratio 1 : 2 : 3. Last year it cost £1860 to run the car. How much did Carol pay?

Simplifying Fractions

1) Simplify $\frac{9}{18}$

2) Simplify $\frac{12}{20}$

3) Simplify $\frac{16}{24}$

4) Write as an improper fraction $2\frac{3}{4}$

5) Write as a mixed number $\frac{27}{6}$

Percentages of Amounts

1) Calculate 40% of 600 ml.

2) Calculate 67% of £120.

3) Bobby went to the shop and there was a 20% sale. He was going to buy a top for £24. How much does he save?

4) Sarah went to the shop and there was a 15% sale. She was going to buy a CD for £8. How much does she save?

Increasing and Decreasing by Percentages

1) Claire improves her further distance for running by 19%. She used to be able to run 4km. How far can she run now?

2) Michael gets 42% better at kick ups. He used to be able to do 32. How many can he do now?

3) Ben loses 36% of his Instagram followers. He used to have 380. How many does he have now?

4) Red bull has 94% more sugar than Coke Life. Coke Life has 1.2g of sugar. How much does Red Bull have?

Calculating with Fractions

Give your answers in their simplest form.

1) $\frac{1}{2} + \frac{1}{4}$

2) $\frac{5}{12} \times \frac{6}{15}$

3) $\frac{16}{27} \div \frac{8}{9}$

4) $2\frac{1}{3} - 1\frac{2}{3}$