Task 1: Log in to Purple Mash: Task 2: Log on to Rock Stars

- Math Task: Convert measures to solve problems and Convert Units
- Math Game: Comparing up to 100,000

Task 3: Number Patterns

The numbers in this sequence increase by equal amounts each time.

Write in the three missing numbers.

| 1 | | | | 7 |

Liam makes a sequence of numbers starting with 300

He subtracts 125 each time.

Write the next two numbers in Liam's sequence.

300   175   50   ☐   ☐

Halid makes a sequence of 5 numbers.

The first number is 2

The last number is 18

His rule is to add the **same amount** each time.

Write in the missing numbers.

| 2 | | | | 18 |

Here is a number sequence.

Write the **missing number**.

1   3   6   10   ☐

Explain how you worked it out.

Task 4: Arithmetic

1) −9 + 15 =

2) 301,900 − 1,000 − 1,000 =

3) 888,777 + 55,555 =

4)
$$\begin{array}{r} 3092 \\ \times \quad 7 \\ \hline \end{array}$$

5) ? + 58,100 = 63,000

6) 6,789 ÷ 7 =

7) 440,000 + 95,000 =

8) 9,900 − 2 =

9) 50 × 120 =

10) 50 + 20 × 33 =

11) 3,600 ÷ 4 + 90 =

12) 5,869.1 × 100 =

13) $1^3 + 9^2 − 3^2 =$

14) 45.6 ÷ 1000 =

15) 0.03 × 7 =

16) 178.6 + 1.512 =

17)
$$\begin{array}{r} 93.78 \\ \times \quad 5 \\ \hline \end{array}$$
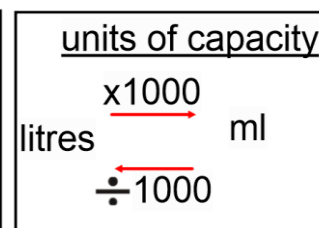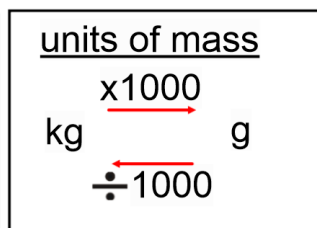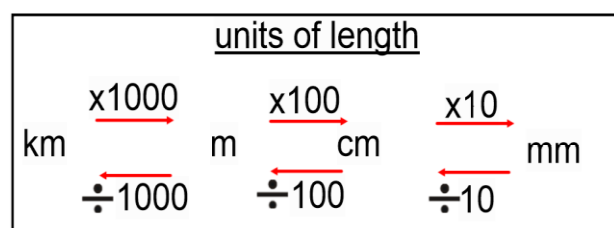
18) $\frac{1}{8} \times \frac{1}{6} =$

19) $\frac{3}{4} − \frac{5}{12} =$

20) 40 − 36 ÷ 3 + 5 =

21) 385.1 − 8.112 =

22) 34% of 460 =

Task 5: Measurement – Converting units of length, mass and capacity

units of length
x1000   x100   x10
km ⟶ m ⟶ cm ⟶ mm
÷1000   ÷100   ÷10

units of mass
x1000
kg ⟶ g
÷1000

units of capacity
x1000
litres ⟶ ml
÷1000

e.g. 3km =3000 m, 30 mm = 3 cm   4kg = 4000 g   2.5 L = 2500 ml

Red box:

1) 5000 m = _____ km
2) 60 mm = _____ cm
3) 0.6 kg = _____ g
4) 8.2 L = _____ ml
5) 7900 ml = _____ L

A pineapple has a mass of 2.12 kg. Find the mass in grams.

Orange box:

1) 2168 m = _____ km
2) 29 cm = _____ m
3) 153 mm = _____ m
4) 0.6 L = _____ ml
5) 75 ml = _____ L

6) Jack pours some dark paint into a container.

litres

— 5
— 4
— 3

a) In litres, how much paint is in the container?
b) Convert into ml

Green box:

1) 3.456 kg = 3456 _ g
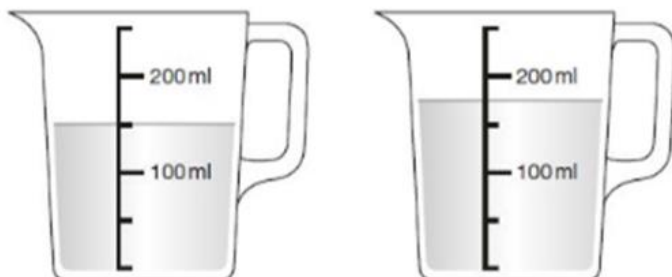Copy and complete by putting <,> or =.
2) 10 cm _____ 0.09 m
3) 3000 mm _____ 0.003 km
4) 25 g _____ 0.025 kg
5) A lorry travels 263 km in Belgium and 172 miles in England. How much longer in miles is the English journey?

Task 6: Reasoning

Purple box:

Stefan has **600 millilitres** of water in a bottle.

He pours some of the water into two measuring jugs as shown.

200 ml
100 ml

200 ml
100 ml

How many millilitres of water are left in Stefan's bottle?

Yellow box:

Circle the approximate measurement.

The length of a banana is about ...

2 cm   20 cm   2 mm   2 m   20 m

The mass of an apple is about ...

2 g   20 kg   200 kg   200 g   2 kg

A glass of fruit juice is about ...

2 ml   2 l   20 ml   200 ml   20 l

Blue box:

There are 28 pupils in a class.
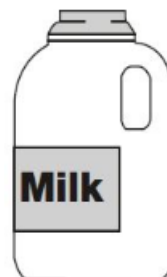
The teacher has 8 litres of orange juice.

She pours 225 millilitres of orange juice for every pupil.

How much orange juice is left over?

Green box (milk):

A bottle contains 568 millilitres of milk.

Jack pours out **half a litre**.

Milk

How much milk is left?

Orange box (bucket):

Megan wants to fill a bucket with water.

A bucket holds 6 litres.

A jug holds 500 millilitres.

How many jugs of water does Megan need to fill an empty bucket?

Pink box:

A machine pours 250 millilitres of juice every 4 seconds.

How many **litres** of juice does the machine pour every **minute**?