### Task I: Log in to Purple Mash:

### Task 2: Log on to Rock Stars

### Task 3: Prime numbers, Factors and Multiples

Circle the prime number.

95 89 87

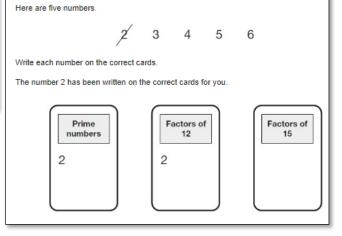
Explain how you know the other numbers are not prime.

A square number and a prime number have a total of 22

What are the two numbers?

Write all the common multiples of 3 and 8 that are less than 50

prime number



# Write three factors of 30 that are not factors of 15

#### Task 4: Arithmetic

square number

8) 
$$9^2 + 8^2 - 3^3 =$$

9) 
$$\frac{2}{5} + \frac{5}{9} =$$

= 22

10) 
$$3\frac{1}{2} + 1\frac{7}{9} =$$

11) 
$$\frac{4}{5} \times 8 =$$

12) 
$$2\frac{4}{7} \times 3 =$$

13) 
$$\frac{3}{4} \times \frac{6}{7} =$$

16) 
$$37.2 + 6 =$$

18) 
$$\frac{2}{5} \div 2 =$$

## Task 5: Money - Using all 4 operations + Reasoning

£5670.34+ £35.4 =

£3.99 x 8

£9.50 = £2.29 + \_\_\_\_

Amina posts three large letters.

The postage costs the same for each letter.

She pays with a £ 20 note.

Her change is £14.96

What is the cost of posting one letter?

3 pineapples cost the same as 2 mangoes.

One mango costs £1.35



How much does one pineapple cost?

Large pizzas cost £8.50 each.

Small pizzas cost £6.75 each.

Five children together buy one large pizza and three small pizzas.

They share the cost equally.

How much does each child pay?

A shop sells fruit.

Chen buys 2 apples and 3 bananas. He pays  $\pounds 2.35$ 





Megan buys 2 apples and 1 banana.

She pays £1.25





How much does one banana cost?

Here are three supermarket bills.



1992000 197 effective 54 veskill 1995 electing 100 though 100 though 199 evillative 155 though 199 evillative 155 total 199 evillative 159 total £65.90 Tom rounds each bill to the nearest £10 and then adds them up.

What is the total amount that Tom gets?

£

Mary adds up the three bills exactly.

What is the total difference between her total and Tom's total?

One gram of gold costs £32.94

What is the cost of half a kilogram of gold?

A shop sells jars of honey and honey dippers.





Chen bought three jars of honey and a dipper.

The total cost was £5.40

The dipper cost 75p.

How much did each jar of honey cost?

Chloe and Denise each bought identical T-shirts from the same shop.

Chloe bought hers on Monday when there was 15% off the original price.



Denise bought hers on Friday when there was 20% off the original price.



Chloe paid 35p more then Denise.

What was the original price of the T-shirt?