

Task 1: 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?

$$\boxed{} + \boxed{} = 22$$

square number

prime number

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

Here are five numbers.

~~2~~ 3 4 5 6

Write each number on the correct cards.

The number 2 has been written on the correct cards for you.

Prime numbers

2

Factors of 12

2

Factors of 15

Write three factors of 30 that are not factors of 15

Task 4: Arithmetic

1) $13 - 17 =$

2)
$$\begin{array}{r} 804,456 \\ + 298,792 \\ \hline \end{array}$$

3) $601,600 - 1,000 - 1,000 =$

4) $801,821 - 16,927 =$

5) $300,001 - ? = 200,002$

6) $8,954 \div 6 =$

7) $360 - 50 \times 7 =$

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

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

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

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

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

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

14) $44 \overline{)5715} =$

15) 55% of 46 =

16) $37.2 + 6 =$

17)
$$\begin{array}{r} 1782 \\ \times 68 \\ \hline \end{array}$$

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

19) $0.04 \times 12 =$

20) $2 + 7 \times 7 - 10 =$

21) $460.405 - 9.5 =$

22)
$$\begin{array}{r} 568 \\ \times 92 \\ \hline \end{array}$$

Task 5: Money - Using all 4 operations + Reasoning

$\pounds 5670.34 + \pounds 35.4 =$

$\pounds 3.99 \times 8$

$\pounds 9.50 = \pounds 2.29 + \underline{\hspace{2cm}}$

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?

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?

A shop sells fruit.

Chen buys 2 apples and 3 bananas.

He pays £2.35



Megan buys 2 apples and 1 banana.

She pays £1.25



How much does one banana 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 than Denise.

What was the original price of the T-shirt?

Here are three supermarket bills.

apples	1.50
bananas	1.50
carrots	1.50
potatoes	1.50
tomatoes	1.50
onions	1.50
peppers	1.50
total	10.50

Total £74.68

apples	1.50
bananas	1.50
carrots	1.50
potatoes	1.50
tomatoes	1.50
onions	1.50
peppers	1.50
total	10.50

Total £65.80

apples	1.50
bananas	1.50
carrots	1.50
potatoes	1.50
tomatoes	1.50
onions	1.50
peppers	1.50
total	10.50

Total £58.05

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?