

Fractions

1) In a pack 15 oranges, 3 of the oranges are mouldy. What fraction of the pack are mouldy?

2) Find the fraction half way between $\frac{1}{5}$ and $\frac{3}{10}$.

Complete the table.

Minutes	Hours
15	$\frac{1}{4}$
20	
	$1\frac{1}{2}$
100	

Fractions

Explain how you know the answer is wrong without working out the correct answer.

$$\frac{3}{5} - \frac{2}{3} = \frac{1}{2}$$

Number Properties

Make the statement true.

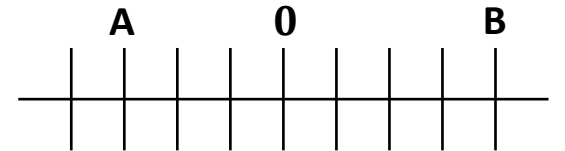
$$12 \times 30 = 4 \times \square = 3 \times \square$$

2) Write down an even multiple of 13.

3) Write down three different factors of 24 that add together to give a prime number.

Number Properties

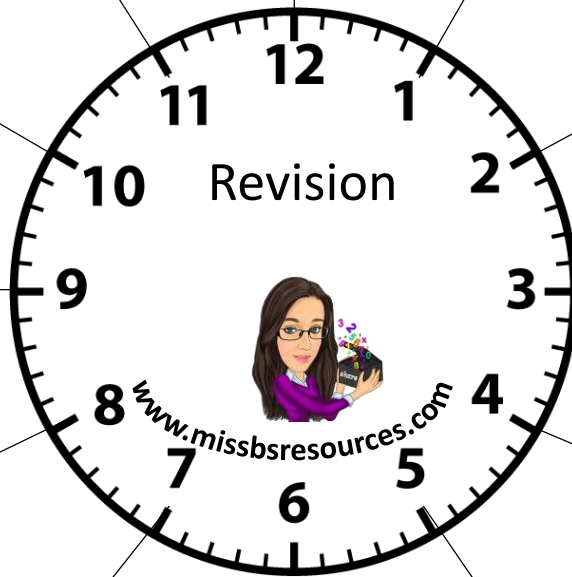
1) Write down a prime number between 20 and 30.



Two numbers, A and B, are shown on a scale. The difference between A and B is 56. Work out the value of A and B.

Fractions

Number Properties



Harley has done some calculations. Explain how you know the answer is incorrect without working out the answer.

$$0.2 \times 0.4 = 0.8$$

Amjad, Henry and Adil share a flat.

- Amjad pays 20% of the rent.
- Henry pays 35% of the rent.
- Adil pays £540.

How much do they pay altogether for the rent?

Decimals

Percentages

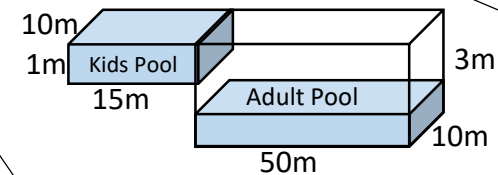
1) Write the following in ascending order of size.

0.23, $\frac{1}{5}$, 22.3%,
0.203, $\frac{3}{16}$

In June, Madeline pays the same amount for each song she downloads. She pays £23.70 for 30 songs. In August, she has a £25 gift card. What is the maximum number of songs she can purchase using this gift card?



In the shop the normal price of a coat is £85. The shop has a sale. The price of the coat is reduced by 12%. Work out the price of the coat in the sale.



The diagram shows two swimming pools.

A kids pool and an adults pool.

The kids pool is full.

The adult pool is only 25% full.

The wall connecting the two pools is lowered and the water from the Kids pool is released into the adults pool before the wall is raised again.

What percentage of the adults pool is now filled?



Decimals

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Percentages

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