

Fractions

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

$$\frac{3}{15} = \frac{1}{5}$$

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

$$\frac{2}{10} \text{ and } \frac{3}{10}$$

$$\frac{4}{20} \text{ and } \frac{6}{20}$$

When adding or subtracting fractions you need a common denominator. This method means $\frac{2}{3} = \frac{1}{1.5}$ in halves $\frac{2}{3} = \frac{1}{1.5}$.

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.

$$3 \times 5 = \boxed{120}$$

$$4 \times \boxed{9} = 36$$

$$12 \times 30 = 4 \times \boxed{90}$$

Number Properties

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

23 or 29

2) Write down an even multiple of 13.

26, 52, ...

Number Properties

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

$4 + 2 + 1 = 7$

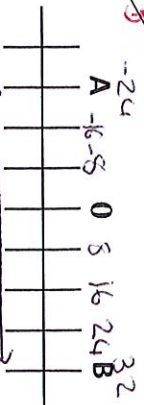
$3 + 6 + 8 = 17$

$8 + 2 + 3 = 13$

$8 + 3 + 12 = 23$

$2 + 3 + 6 = 11$

$$56 \div 7 = 8$$



Number Properties

Fractions

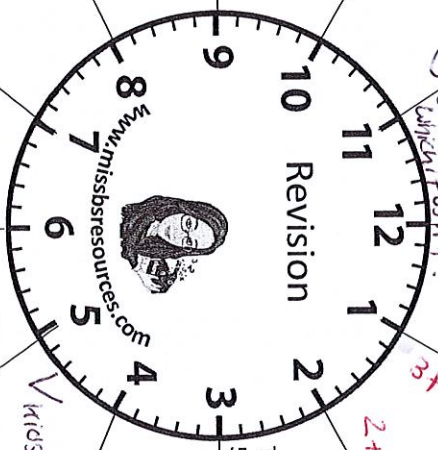
Complete the table.

Minutes	Hours
15	$\frac{1}{4}$
20	$\frac{20}{60} = \frac{1}{3}$
$60 + 30 = 90$	$\frac{1}{2}$
100	$\frac{100}{60} = 1\frac{20}{60} = 1\frac{1}{3}$

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

$$0.2 \times 0.4 = 0.8$$

Decimals



There would need to be two numbers after the decimal point. as $0.1 \times 0.1 = 0.01$

$$\frac{2}{10} \times \frac{4}{10} = \frac{8}{100}$$

$$\frac{3}{16} \times \frac{1}{5} = \frac{3}{80}$$

2) Write down a number between 2.34 and 2.35.

- 2.341, 2.342, 2.343,
- 2.344, 2.345, 2.346, 2.347,
- 2.348 or 2.349.

Decimals

1) Write the following in ascending order of size.

- 0.203,
- 10.2
- 0.223
- 22.3%
- $\frac{3}{5}$
- 0.1875
- 0.23
- 0.23

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

Decimals

$$23.70 \div 30 = 79p$$

$$25 \div 79p = 55p$$

$$79p + 55p = 29.4$$

$$2500 \div 29.4 = 85$$

Percentages

2) Write down an even multiple of 13.

26, 52, ...

Percentages

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Percentages

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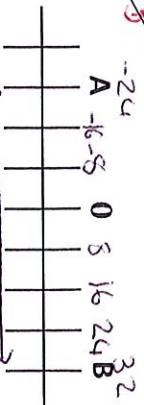
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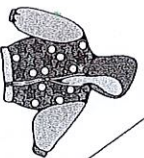
Amjad, Henry and Adil share a flat.

- Amjad pays 20% of the rent. } 55%
- Henry pays 35% of the rent. }
- Adil pays 540

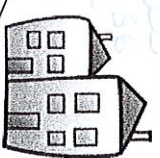
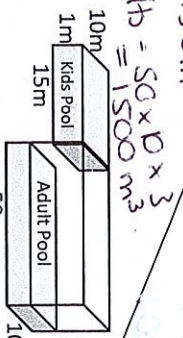
How much do they pay altogether for the rent?

CHANGE TO
Amjad 540.45%
Henry 45% = 12
Adil 100 = 1200

Percentages



$$85 \times 0.88 = 74.80$$



$$\frac{150}{1500} = \frac{1}{10} = 10\%$$

$$25\% + 10\% = 35\%$$

Percentages

Percentages

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?