

Problems involving the calculation of more complex percentages and the use of percentage for comparison

1.

Find 51% of 480

2.

Work out how much less 35% of 260 is than 85% of 120.

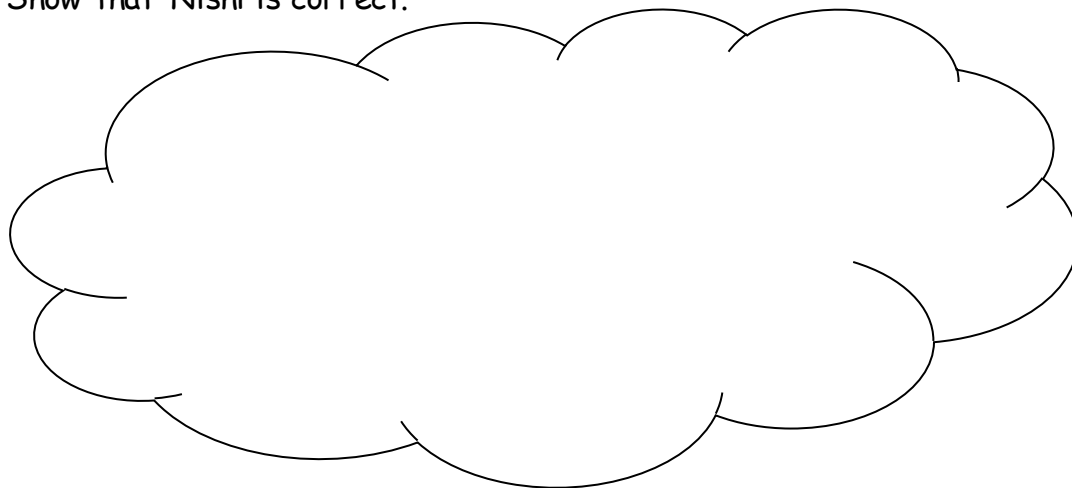
3.

Ben scored $\frac{37}{50}$ in a maths test and $\frac{19}{25}$ in a reading test.

What is the percentage difference between the two scores?

Nishi says, "I have spent 25% of my money on a new computer, so I have $\frac{3}{4}$ of my money left."

Show that Nishi is correct.



Answers

1.

244.8

2.

11

Evidence of correct method, e.g.

$$35\% \text{ of } 260 = 91$$

$$85\% \text{ of } 120 = 102$$

$$102 - 91 =$$

3.

2%

Evidence of correct method, e.g.

$$\frac{37}{50} = 74\%$$

$$\frac{19}{25} = 76\%$$

$$76\% - 74\% =$$

4.

Explanation that shows

$$25\% = \frac{1}{4} \text{ and } 1 - \frac{1}{4} = \frac{3}{4} \text{ and } \frac{3}{4} = \frac{3}{4}$$

$$\text{OR } \frac{3}{4} = 75\% \text{ and } 100\% - 75\% = 25\% \text{ and } 25\% = 25\%$$
