

24.03.21

pre teach

Percentage is out of 100

$$1\% \text{ (percent)} = 1 \text{ out of } 100 = \frac{1}{100}$$

$$10\% \text{ (percent)} = 10 \text{ out of } 100 = \frac{10}{100}$$

$$25\% \text{ (percent)} = 25 \text{ out of } 100 = \frac{25}{100}$$

$$50\% \text{ (percent)} = 50 \text{ out of } 100 = \frac{50}{100}$$

24.03.21

L.O: To write % as fractions

On your Whiteboards

$$\begin{array}{r} 1 \quad 7894 \\ - 3918 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 7425 \\ - 6773 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 9882 \\ - 6443 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 6746 \\ - 5816 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 6873 \\ - 5175 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 7043 \\ - 5878 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 7861 \\ - 7200 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 9803 \\ - 1985 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 7327 \\ - 5309 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 7178 \\ - 2906 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 5637 \\ - 4447 \\ \hline \\ \hline \end{array}$$

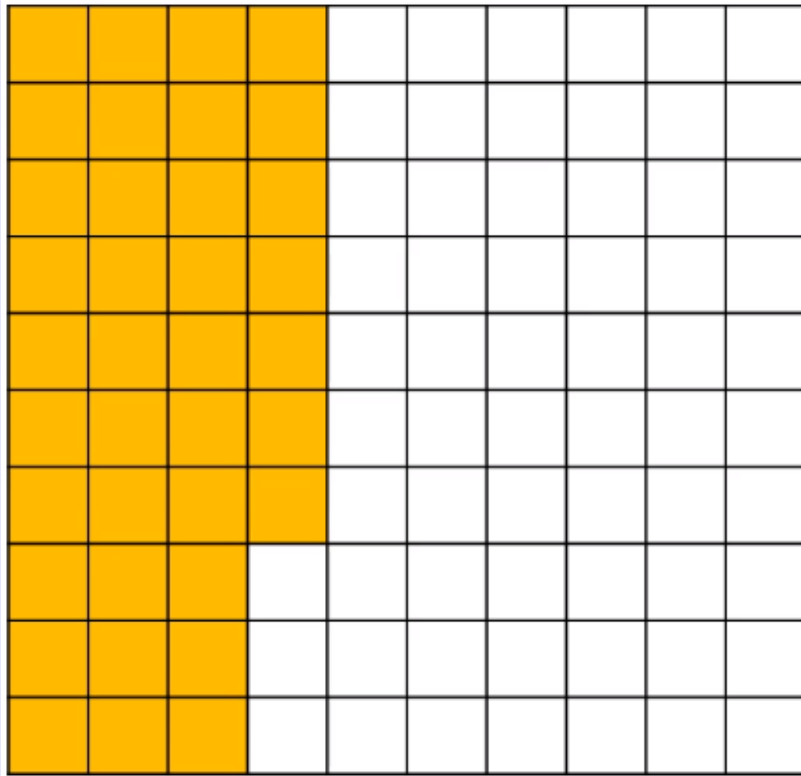
$$\begin{array}{r} 12 \quad 2877 \\ - 2498 \\ \hline \\ \hline \end{array}$$

What is Percentage?

Percentage means 'out of one hundred'. So, the morpheme 'per' means 'out of' and 'cent' means 'one hundred'.

What fraction of the 100 square is shaded

I do



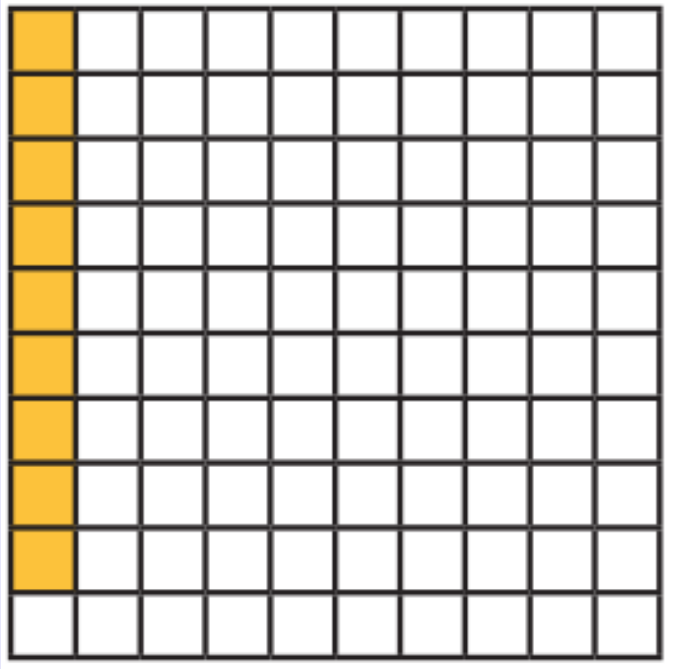
There are 37 parts out of 100 are shaded.

$$\frac{37}{100}$$

This is also 37%

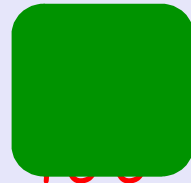
$$\text{So, } 37\% = \frac{37}{100}$$

What fraction of the 100 square
is shaded



We do

There are 10 parts out of
100 are shaded.



This is also 10%

So,



Convert this % to fraction

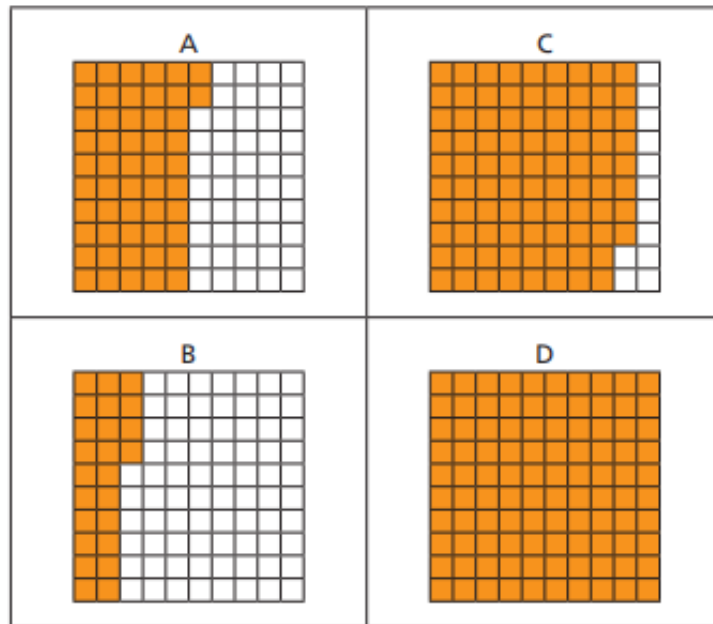
We do

$$5\% = \square$$

Convert this fraction to %

$$\frac{100}{200} = \square$$

Here are four hundred squares.



Complete the table.

Hundred square	Percentage	Fraction
A		$\frac{52}{100}$
B		
C		
D		

You Do

Write <, > or = to complete the statements.

a) 50% $\frac{5}{100}$

b) 25% $\frac{50}{100}$

c) 14% $\frac{41}{100}$

d) $\frac{40}{100}$ 40%

e) $\frac{70}{100}$ 7%

f) 82% $\frac{82}{100}$

Write $<$, $>$ or $=$ to complete the statements.

a) 50% $>$ $\frac{5}{100}$

b) 25% $<$ $\frac{50}{100}$

c) 14% $<$ $\frac{41}{100}$

d) $\frac{40}{100}$ $=$ 40%

e) $\frac{70}{100}$ $>$ 7%

f) 82% $=$ $\frac{82}{100}$

You Do

Helen takes 25 shots at basketball training.
She misses 7 shots.
What percentage of the shots did Helen miss?



I do

$$\frac{7}{25}$$

Percentages are always out of 100

We need to turn $\frac{7}{25}$ into hundredths by multiplying numerator and denominator by 4

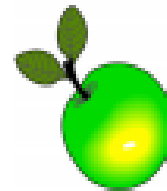
$$\frac{7 \times 4}{25 \times 4} = \frac{28}{100} = 28\%$$

Helen missed
28% of the shots

James sat an English test.
He scored 39 out of 50.
What percentage did he get right?

You Do

There are 20 apples on a tree.
3 of the apples are bad.
What percentage of the apples are bad?

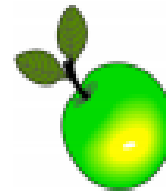


James sat an English test.
He scored 39 out of 50.
What percentage did he get right?

You Do

$$\frac{39 \times 2}{50 \times 2} = \frac{78}{100} = 78\%$$

There are 20 apples on a tree.
3 of the apples are bad.
What percentage of the apples are bad?



$$\frac{3 \times 5}{20 \times 5} = \frac{15}{100} = 15\%$$

