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Sometimes, you can work out percentages easily. At other times, you may have to estimate.



There are 100 squares in this grid. 50% are Red 27% are Yellow 23% are Green

Can you estimate the percentage of each shape that is <u>red</u>?



To find 50% of a number, divide it by 2...

50% of 40 = 20

To find 25% of a number, divide it by 4...

25% of 40 = 10

To find 75% of a number, find 25% and then multiply that by 3...

75% of 40 = 30

To find 1% of a number, divide it by 100...

1% of 300 = 3

There are some quicker methods to help you find different percentages of amounts:

CARAMENTES IFIC ?

To find 10% of a number, divide it by 10...

10% of 500 = 50

If the percentage is a multiple of 10, use the method above to help you.

> 20% of 500 = 100 30% of 500 = 150 40% of 500 = 200

Could you combine any of these methods to find 11% of a number... or 85% of a number?

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50%	25%
20%	99%
80%	1%
5%	73%
32%	12%
79%	45%

Find the Percentage - Set A

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- 1) Find the percentage that is equivalent to 1/4.
- 2) Find the percentage that is equivalent to 1/100.
- 3) Find the percentage that is equivalent to 4/5.
- 4) Find the percentage that is equivalent to 9/20.
- 5) Find the percentage that is equivalent to 0.79.
- 6) Find the percentage that is equivalent to 0.05.
- Put the percentages in order of size, from smallest to largest.
- 8) Find two percentages that can be added together to make 100%.
- 9) Find two percentages with a difference of 33%.
- 10) On Sunday, Dawn's sunflower was 80cm tall.By Friday, it was 100cm tall.By what percentage had it grown?









What percentage of these balloons are green?



Price Changes!

- The price of the robot is increasing by 10%. What will the new price be?
- 2) There is a '50% off' sale. What will the new price of the basketball be?
- 3) At the weekend, the price of the building blocks will be reduced by 25%. What will the new price be?
- 4) The price of the laptop is increasing by 50%. What will the new price be?
- 5) If the price of the car drops by 10%, what will the new price be?
- 6) The price of the teddy bear will increase by 25% tomorrow. What will the new price be?
- 7) The price of the books drops by £5.00. What percentage of the original price is this?
- 8) The price of the piggy bank goes up by 50%. What will the new price be?
- 9) Joseph buys the robot and the building blocks. What will the total cost be?
- 10) Emily buys the basketball, the teddy and the building blocks. What will the total cost be?

Parates of Amonts

- 10% of 90 = 1. 2.
- 30% of 20 = 3.
- ^{5.} 90% of 20 =
- ^{7.} 90% of 60 =
- $^{9.}$ 40% of 60 =
- ^{11.} 80% of 50 = ____
- ^{13.} 90% of 70 =
- ^{15.} 70% of 90 =
- ^{17.} 70% of 70 = ____
- ^{19.} 20% of 10 =

- 30% of 40 =____
- ^{4.} 50% of 10 =
- ^{6.} 50% of 80 =
- ^{8.} 20% of 50 =
- ^{10.} 80% of 70 =
- ^{12.} 30% of 30 =
- ^{14.} 50% of 30 =
- ^{16.} 10% of 80 =
- ^{18.} 90% of 10 =
- ^{20.} 80% of 30 = ____

Can you calculate the correct percentage of each amount?

Party of America

- ^{1.} 10% of 90 = <u>9</u>
- ^{3.} 30% of 20 = 6
- ^{5.} 90% of 20 = 18
- ^{7.} 90% of 60 = 54
- 9. 40% of 60 = 24
- ^{11.} 80% of 50 = 40
- ^{13.} 90% of 70 = 63
- ^{15.} 70% of 90 = 63
- ^{17.} 70% of 70 = 49
- ^{19.} 20% of 10 = 2

- ^{2.} 30% of 40 = 12
- ^{4.} 50% of 10 = 5
- ^{6.} 50% of 80 = 40
- ^{8.} 20% of 50 = 10
- ^{10.} 80% of 70 = 56
- ^{12.} 30% of 30 = 9
- ^{14.} 50% of 30 = 15
- ^{16.} 10% of 80 = 8
- ^{18.} 90% of 10 = 9
- ^{20.} 80% of 30 = 24

Can you calculate the correct percentage of each amount?

Sheet 1 ANSWERS

Party of America

- ^{1.} 70% of 40 = _____
- $^{3.}$ 50% of 30 =
- ^{5.} 95% of 90 =
- ^{7.} 5% of 10 =
- ^{9.} 3% of 10 = ____
- ^{11.} 37% of 40 =____
- ^{13.} 7% of 70 =
- ^{15.} 98% of 10 = ____
- ^{17.} 51% of 60 =____
- ^{19.} 5% of 20 =

- ^{2.} 12% of 90 =
- ^{4.} 4% of 50 =____
- ^{6.} 7% of 90 =____
- ^{8.} 71% of 90 =____
- ^{10.} 23% of 50 =
- ^{12.} 5% of 40 =____
- ^{14.} 11% of 30 =
- ^{16.} 58% of 10 = _____
- ^{18.} 88% of 60 =
- ^{20.} 3% of 60 =____

Can you calculate the correct percentage of each amount?

Party of America

- ^{1.} 70% of 40 = 28
- ^{3.} 50% of 30 = 15
- ^{5.} 95% of 90 = 85.5
- ^{7.} 5% of 10 = 0.5
- ^{9.} 3% of 10 = 0.3
- ^{11.} 37% of 40 = <u>14.8</u>
- ^{13.} 7% of 70 = 4.9
- ^{15.} 98% of 10 = 9.8
- ^{17.} 51% of 60 = 30.6
- ^{19.} 5% of 20 = 1

- ^{2.} 12% of 90 = 10.8
- ^{4.} 4% of 50 = 2
- ^{6.} 7% of 90 = 6.3
- ^{8.} 71% of 90 = 63.9
- ^{10.} 23% of 50 = 11.5
- ^{12.} 5% of 40 = 2
- ^{14.} 11% of 30 = 3.3
- ^{16.} 58% of 10 = 5.8
- ^{18.} 88% of 60 = 52.8
- ^{20.} 3% of 60 = 1.8

Can you calculate the correct percentage of each amount?

Sheet 13 ANSWERS





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> > Mark and Helen



