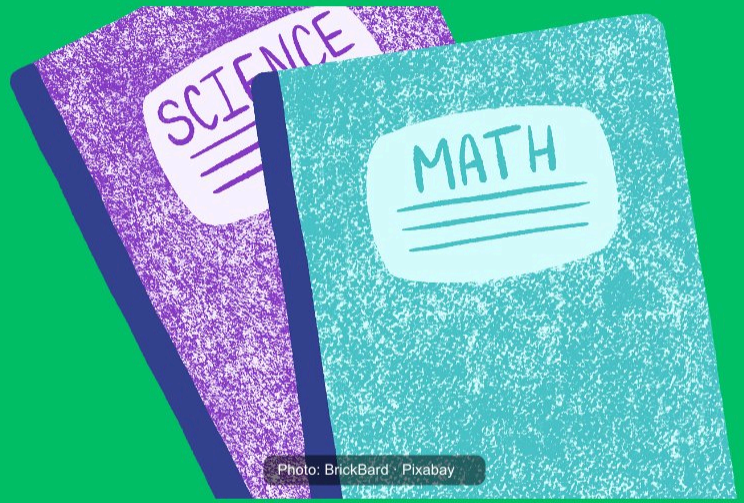
Percent Power!

Rate per 100: find the part, find the whole



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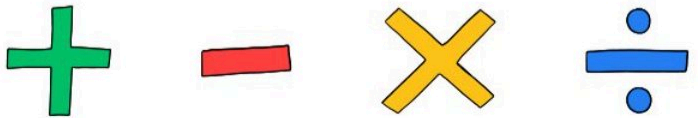
Today we will...

WE ARE LEARNING TO

- Find a percent of a quantity as a rate per 100
- Find the whole from a part and the percent

SUCCESS LOOKS LIKE

- ✓ I can write 30% as 30/100 times the quantity
- ✓ I can divide a part by the percent to get the whole



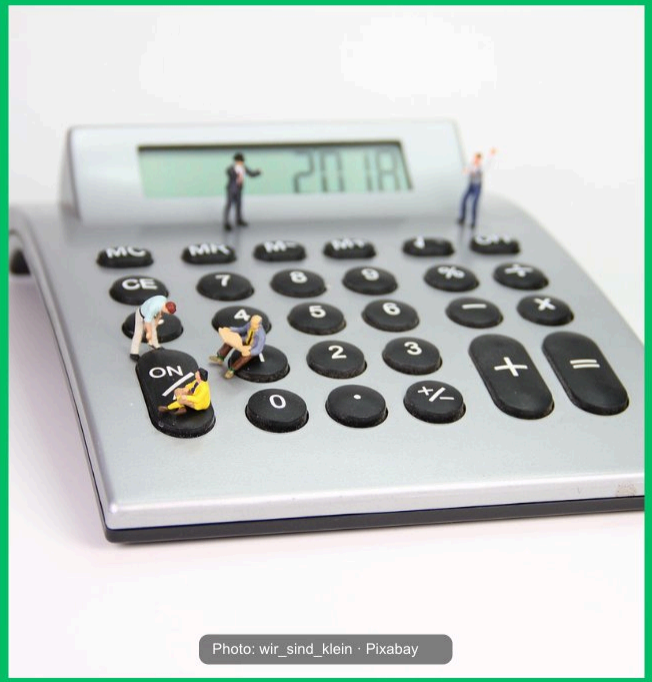
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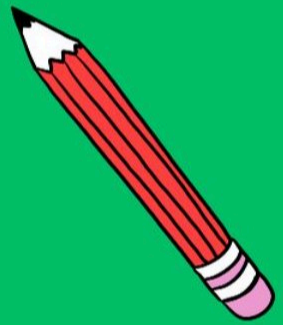
$a^2+b^2=c^2$

DID YOU KNOW?

8% of 50 equals 50% of 8

Both equal 4, because you multiply the same numbers in a different order.



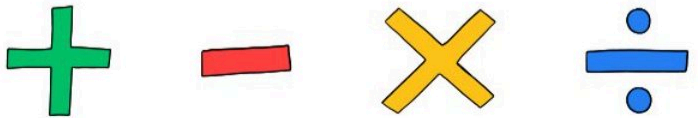


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What is percent?

Percent

- per 100
- 30% = 30/100
- bar model helps
- part = percent (as a decimal) x whole
- whole = part ÷ percent (as a decimal)



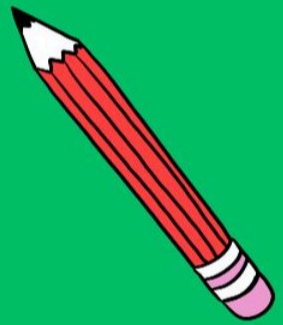
$a^2+b^2=c^2$

What Does Percent Mean?



▶ 0:00 – 4:55

- Watch what 100 means for the whole
- Listen for per 100 as a rate
- Spot links between fractions and percent



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Percent at the Store

A game costs $20. At 30% off, you save $6. Percent shows the part of the whole price.

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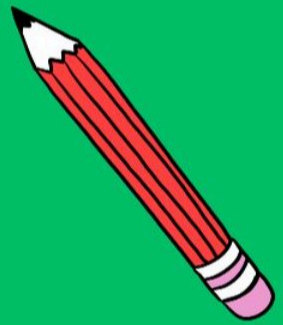
$a^2+b^2=c^2$

Finding a Percent of a Number



▶ 0:00 – 4:45

- Watch writing % as n/100 times quantity
- Notice decimals like 0.30 for 30%
- Try the example before the video shows it



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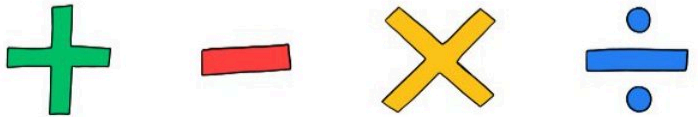
Your task

In pairs, find missing parts and wholes using rate per 100.

1. Find 30% of 60 and 15% of 200.
2. 12 is 40% of what whole? Divide to show it.
3. Draw a bar split to 100% to check.

10 min

In pairs

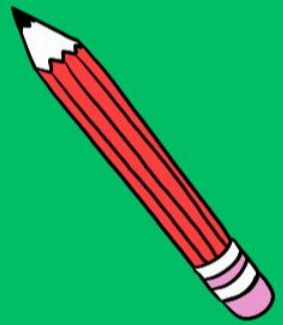


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$a^2+b^2=c^2$

Finding the Whole From a Part

1. Whole = part divided by percent as a decimal
2. 40% means 40/100, which is 0.40
3. 12 is 40% so 12 ÷ 0.40 = 30
4. Check: 0.40 x 30 equals 12



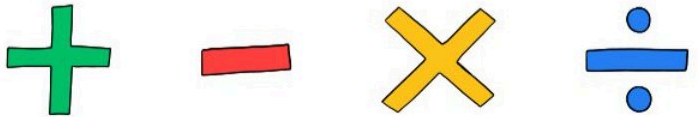
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Which Way Clicks for You?

Which way to show 30% of a quantity do you like best?

- **A** 30/100 times the quantity
- **B** Double number line up to 100%
- **C** Find 10% then times 3
- **D** All work - pick your fastest

Vote with your hands, then explain why.

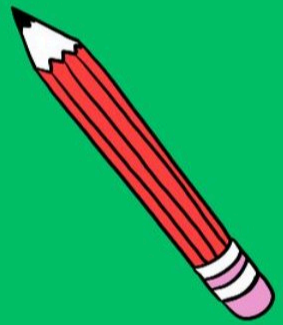


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$a^2+b^2=c^2$

Quick quiz

1. What is 30% of 50? Show as 30/100 times 50.
2. 9 is 30% of what whole? Hint: divide 9 ÷ 0.30.
3. What is 25% of $80?



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