Answers and talk notes

Understand Percent

What your student is learning

Tonight we learn what a percent really means: a comparison to 100. Percent means "per hundred."

Answers

Ask your student to explain before you look.

1. **B.** 100. 30% means 30 out of 100.
2. **A.** 45%. 45 out of 100 squares is 45%.
3. **D.** 70%. Multiply both numbers by 10: 7 out of 10 is 70 out of 100, so it is 70%.
4. **C.** 5%. Multiply both numbers by 5: 1 out of 20 is 5 out of 100, so it is 5%.
5. **B.** 40/100. Multiply both numbers by 20: 2 × 20 = 40 and 5 × 20 = 100, so 40/100.
6. **A.** 60%. Multiply both numbers by 5: 12 out of 20 is 60 out of 100, so 60%.

Talk about it

Percent means out of how many?

Home mission

Line up 10 spoons. Say, "4 out of 10 voted for the tiger." Ask your student: if there were 100 spoons, how many would be for the tiger? What percent is that?

When they are stuck, ask

- How many would that be out of 100?
- What do you multiply the bottom number by to reach 100?
- Did you multiply BOTH numbers by that?

Try not to say

- Just move the decimal point and don't worry why.
- A percent can never be more than 100.
- Add the two numbers of the ratio.