Answers and talk notes

Find and Compare with Percentages

What your student is learning

Tonight we find a percent of a number, like a discount on a price. We change the percent to a decimal and multiply.

Answers

Ask your student to explain before you look.

1. **A.** 0.4. 40% is 40 hundredths, which is 0.40 = 0.4.
2. **C.** 18. 50% is half, so half of 36 is 18.
3. **D.** 9. 10% is one tenth, so 90 ÷ 10 = 9.
4. **B.** 12. 25% is one fourth, so 48 ÷ 4 = 12.
5. **A.** 14. 10% of 70 is 7, so 20% is 7 × 2 = 14.
6. **C.** 60 tickets. 25% of 80 is 20 tickets saved. The sale price is 80 − 20 = 60 tickets.

Talk about it

Did the problem ask for the amount you saved (the discount) or the amount you have to pay (the sale price)?

Home mission

Count out 60 beans or coins to stand for 60 tickets. Ask your student to make four equal groups to show 25% off. How many tickets are saved? Then try 50% off.

When they are stuck, ask

- What number comes after the word "of"? That is the base we multiply by.
- What is this percent written as a decimal?
- About how big should the answer be? Let's estimate first.

Try not to say

- Just multiply by the percent number, like 25 × 60.
- Multiply by the percent number itself instead of the base.
- To make a percent a decimal, just divide by 10.