Name_____ Date_____ Period_____

LESSON 2-8 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Find the Mean

Builds on Lesson 2-8 Session 1 · 6.SP.B.5c

TODAY'S LESSON	In Problem 4 you find a missing number. Then you check that the mean of all five is 22.
YOU NEED TO	Find the mean: add the values, then divide by how many there are. **You will use it in Practice Form A, problems 4 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Add** all the values.
2. **Count** the values.
3. **Divide** the sum by the count.

WATCH ME

the steps in action

Find the mean of 19, 25, 21, 28 and 17.

Step 1 19 + 25 + 21 + 28 + 17 = 110.

Step 2 There are 5 values.

Step 3 110 ÷ 5 = 22.

Answer **22**

TRY IT WITH HELP

fill in each step

1. Find the mean of 6, 9, 10 and 7.

Step 1 6 + 9 + 10 + 7 = _____

Step 2 There are _____ values.

Step 3 32 ÷ 4 = _____

2. Find the mean of 14, 20, 17 and 21.

Step 1 14 + 20 + 17 + 21 = _____

Step 2 There are _____ values.

Step 3 72 ÷ 4 = _____

YOUR TURN

use the steps on your own

3. Find the mean.

a. 4, 6, 8 _____

b. 10, 20, 30, 40 _____

c. 5, 5, 8, 10, 12 _____

d. 30, 45, 25, 50, 40, 50 _____

e. 3, 8, 5, 12 _____

f. 2, 4, 6, 8, 10 _____

Use the Balance Point

Builds on Lesson 2-8 Session 1 · 6.SP.B.5c

TODAY'S LESSON	For a mean of 29, the points below 29 must balance the points above 29.
YOU NEED TO	Use distances from the mean: the total below must equal the total above. **You will use it in Practice Form A, problems 2 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** how far each value is below or above the target.
2. **Add** the amounts below. Add the amounts above.
3. **Balance**: the missing value makes up the difference.

WATCH ME

the steps in action

Values: 13, 17, 12. What fourth value makes the mean 15?

Step 1 13 is 2 below, 17 is 2 above, 12 is 3 below.

Step 2 Below: 2 + 3 = 5. Above: 2.

Step 3 Need 3 more above: 15 + 3 = 18.

Answer 18

TRY IT WITH HELP

fill in each step

4. Values: 8, 12, 9. What fourth value makes the mean 10?

Step 1 8 is _____ below, 12 is 2 above, 9 is _____ below.

Step 2 Below: _____. Above: 2.

Step 3 Need _____ more above: 10 + 1 = _____

5. Values: 22, 18, 25. What fourth value makes the mean 20?

Step 1 22 is 2 above, 18 is _____ below, 25 is _____ above.

Step 2 Below: 2. Above: _____

Step 3 Need _____ more below: 20 − 5 = _____

YOUR TURN

use the steps on your own

6. Find the missing value that makes the mean.

a. 4, 6, □; mean 5 _____

b. 10, 14, □; mean 12 _____

c. 7, 9, 5, □; mean 8 _____

d. 20, 25, 18, □; mean 20 _____

READY CHECK

a problem like the one in today's lesson

7. Five numbers have a mean of 20. Four of them are 18, 23, 19 and 24. What is the fifth number?

A 16 **B** 20 **C** 21 **D** 84

CHECK YOURSELF □ I can do this on my own □ I need a little help □ I have a question about #____