LESSON MAKER PRO

Find the Point

Solve equations and show their solutions.

GRADE 6 · 6.AT.C.8.c

6.AT.C.8.c "Represent solutions of such equations on a number line."

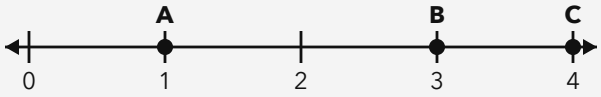
NAME _____ DATE _____

SOLVE, THEN MARK

Solve the equation to find x. To show the solution on a number line, place a filled dot at that value.

WORKED EXAMPLE

Solve x + 7 = 10. Which point shows the solution?



1. Subtract 7 from both sides.
2. x = 10 - 7
3. x = 3

Answer: Point B

PRACTICE 4 problems

1 Solve x - 6 = 2. Where would you place a dot?

ANSWER _____

2 Solve x + 9 = 4. Where would you place a dot?

ANSWER _____

3 Solve 5x = 20. Where would you place a dot?

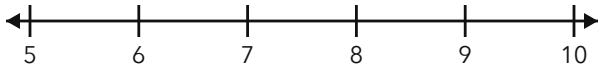
ANSWER _____

4 Solve x/4 = -2. Where would you place a dot?

ANSWER _____

APPLY IT Show your work

1 You have 6 game tickets and win x more. Now you have 14. Solve 6 + x = 14, then mark x on the number line.



ANSWER _____

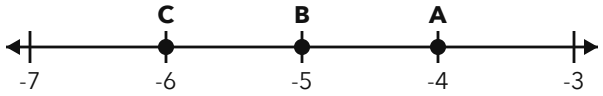
2 A video is x minutes long. After you watch 8 minutes, 5 minutes remain. Solve x - 8 = 5, then mark x on the number line.



ANSWER _____

CHALLENGE One step up

A student solves 2x + 6 = -4 and chooses point A. Which point is correct? Explain why.



WORK SPACE AND ANSWER

ANSWER KEY

Find the Point

GRADE 6 · 6.AT.C.8.c

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Solve x - 6 = 2. Where would you place a dot?	**8**
2	Solve x + 9 = 4. Where would you place a dot?	**-5**
3	Solve 5x = 20. Where would you place a dot?	**4**
4	Solve x/4 = -2. Where would you place a dot?	**-8**

PART 2 · APPLY IT

1. **Filled dot at 8** Subtract 6 from 14 to get x = 8.
2. **Filled dot at 13** Add 8 to 5 to get x = 13.

CHALLENGE

Point B. Subtract 6 to get 2x = -10, then divide by 2 to get x = -5.

For the word problems, accept a clear mark at the correct tick. For the challenge, accept any correct explanation that identifies point B.