LESSON MAKER PRO

Fill and Figure

Find the value of each expression.

GRADE 5 · 5.A.2.3

5.A.2.3 "Evaluate expressions involving variables when values for the variables are given."

NAME _____ DATE _____

REPLACE, THEN CALCULATE

A blank can stand for a number. To evaluate an expression, replace every blank with the given number. Calculate inside parentheses first, then multiply or divide before you add or subtract.

WORKED EXAMPLE

Evaluate 8 × ____ + 11 when ____ = 4.

1. Replace the blank: 8 × 4 + 11
2. Multiply: 32 + 11
3. Add: 43

Answer: 43

PRACTICE 6 problems

1 Evaluate 5 × ___ + 2 when ___ = 3.

ANSWER _____

2 Evaluate 30 - 3 × ___ when ___ = 7.

ANSWER _____

3 Evaluate (___ + 6) × 2 when ___ = 5.

ANSWER _____

4 Evaluate 42 / ___ + 1 when ___ = 7.

ANSWER _____

5 Evaluate ___ × ___ + 10 when ___ = 3.

ANSWER _____

6 Evaluate 36 / (___ + 1) when ___ = 5.

ANSWER _____

APPLY IT Show your work

1 Each sticker pack has 6 stickers. You already have 3 stickers. The expression 6 × ___ + 3 gives your total after you buy ___ packs. How many stickers will you have if you buy 5 packs?

WORK SPACE

ANSWER _____

2 At an arcade, you start with 60 game tickets and spend 7 tickets on each turn. The expression 60 - 7 × ___ gives the tickets left after ___ turns. How many tickets are left after 6 turns?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Evaluate 5 × (___ + 3) and 5 × ___ + 3 when ___ = 2. Which expression has the greater value, and by how much?

WORK SPACE AND ANSWER

ANSWER KEY

Fill and Figure

GRADE 5 · 5.A.2.3

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Evaluate 5 × ___ + 2 when ___ = 3.	**17**
2	Evaluate 30 - 3 × ___ when ___ = 7.	**9**
3	Evaluate (___ + 6) × 2 when ___ = 5.	**22**
4	Evaluate 42 / ___ + 1 when ___ = 7.	**7**
5	Evaluate ___ × ___ + 10 when ___ = 3.	**19**
6	Evaluate 36 / (___ + 1) when ___ = 5.	**6**

PART 2 · APPLY IT

1. **33 stickers** Substitute 5 for the blank: 6 × 5 + 3 = 33.
2. **18 tickets** Substitute 6 for the blank: 60 - 7 × 6 = 60 - 42 = 18.

CHALLENGE

5 × (___ + 3) = 25 and 5 × ___ + 3 = 13. The first expression is greater by 12.

Accept answers with or without units for the word problems when the units are clear from the question. For the challenge, students should give both values and compare them.