tutorified

4.OA.A.3 Order of Operations and Filling Numbers

4.OA.A.3: Solve multistep word problems posed with whole numbers using the four operations.

a.	80 –	11	×	3	– 5
u.	OO	1 1	/\	J	9

b.
$$15 \div 3 + 28 \div 7$$

c.
$$12 \times 3 - 36 \div 12$$

d.
$$3 \times 7 - 25 \div 5 + 8$$

u.
$$3 \times 7 = 23 \div 3 \div 8$$

e.
$$3 + 44 \div 11 \times 2 - 5$$

f.
$$6 + 42 \div 6 \times 2 - 5$$

g.
$$27 \div 9 \times 4 - 3 + 9$$

h.
$$8 \times 4 + 16 \div 4 + 7$$

Solution:

- a.

- 2. Use the numbers listed to fill in the missing numbers to | Solution: make a true number sentence.
 - a. 2, 5, and 8
 - b. 3 and 18

 - d.

 - 3, 8, and 25 \rightarrow + = 30 8, 9, and 3 \rightarrow \times + = 75 3, 4, and 5 \rightarrow \times = 11 4, 12, and 20 \rightarrow \div + \div = 8 f.
 - g.

- a.
- b.
- c.
- d.
- e. f.
- g.
- 3. If Ethan wins a game, seven tickets are given to him. If he loses, he must return four tickets. How many tickets does he receive, if he wins 5 games and loses 3?

Solution:

4. Lyn buys 3 bouquets of flowers for \$13 each. He pays with four \$10 bills. How much money does he have left?

Solution:

5. Pola buys 3 hamster pets for \$5 each. She also buys 9 kilograms of pet food. One kilogram costs \$2. Ceasar buys 4 hamster pets for \$4 each. He buys 7 kilograms of the same pet food. Who spent more money and by how much?

Solution:

- 6. What is the value of expression $63 \div 7 12 + 5 \times 8 \div 4$?
 - A. 27

B. 45

D. None of the above

Solution:

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4.OA.A.3: Solve multistep word problems posed with whole numbers using the four operations.

Answer Key

1. Find the value of each expression. Make sure that you use correct order of operation.

a.
$$80 - 11 \times 3 - 5$$

b.
$$15 \div 3 + 28 \div 7$$

c.
$$12 \times 3 - 36 \div 12$$

d.
$$3 \times 7 - 25 \div 5 + 8$$

e.
$$3 + 44 \div 11 \times 2 - 5$$

f.
$$6 + 42 \div 6 \times 2 - 5$$

g.
$$27 \div 9 \times 4 - 3 + 9$$

h.
$$8 \times 4 + 16 \div 4 + 7$$

Solution:

a.
$$80 - 33 - 5 = 47 - 5 = 42$$

b.
$$5 + 4 = 9$$

c.
$$36 - 3 = 33$$

d.
$$21-5+8=16+8=24$$

e.
$$3+4\times 2-5=3+8-5=6$$

f.
$$6+7\times 2-5=6+14-5=15$$

g.
$$3 \times 4 - 3 + 9 = 12 - 3 + 9 = 18$$

h.
$$32 + 4 + 7 = 36 + 7 = 43$$

2. Use the numbers listed to fill in the missing numbers to make a true number sentence.

a. 2, 5, and 8
$$\rightarrow$$
 \times + = 1

b. 3 and 18
$$\rightarrow$$

c. 3, 8, and 25
$$\rightarrow$$
 $+$ $=$ 30

d. 8, 9, and 3
$$\rightarrow$$
 \times $+$ $= 75$
e. 3, 4, and 5 \rightarrow \times $= 11$

e. 3, 4, and 5
$$\rightarrow$$
 \times $-$ = 11

f. 4, 12, and 20
$$\rightarrow$$
 ___ \div ___ + ___ \div ___ = 8

Solution:

a.
$$2 \times 5 + 8 = 18$$

b.
$$18 \div 3 = 6$$

c.
$$25 - 3 + 8 = 30$$

d.
$$8 \times 9 + 3 = 75$$

e.
$$3 \times 5 - 4 = 11$$

f.
$$12 \div 4 + 20 \div 4 = 8$$

g.
$$3 \times 9 + 48 \div 3 = 43$$

3. If Ethan wins a game, seven tickets are given to him. If he loses, he must return four tickets. How many tickets does he receive, if he wins 5 games and loses 3?

Solution:

$$(5 \times 7) - (3 \times 4) = 35 - 12 = 23$$

Answer: 23 tickets

4. Lyn buys 3 bouquets of flowers for \$13 each. He pays with four \$10 bills. How much money does he have left?

Solution:

$$(4 \times 10) - (3 \times 13) = 40 - 39 = $1$$

5. Pola buys 3 hamster pets for \$5 each. She also buys 9 kilograms of pet food. One kilogram costs \$2. Ceasar buys 4 hamster pets for \$4 each. He buys 7 kilograms of the same pet food. Who spent more money and by how much?

Solution:

Pola: $3 \times 5 + 9 \times 2 = 33$

Ceasar: $4 \times 4 + 7 \times 2 = 30$

Pola spent more money by \$3.

6. What is the value of expression $63 \div 7 - 12 + 5 \times 8 \div 4$?

A. 27

B. 45

D. None of the above

Solution:

C. 7