4.OA.A.3 Order of Operations and Problem Solving

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

1.	Find	the	value	of	each	express	ion.	Make	sure	that	VOII	use	correct	order	of o	operatio	n.
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a.	2×8	3 - 9	÷ 3	+6

b.
$$11 \times 7 - 60 + 44 \div 4$$

c.
$$35 - 3 \times 9 + 18$$

d.
$$12 \times 1 - 18 \div 2 + 13$$

e.
$$56 \div 8 - 3 + 4 \times 6$$

f.
$$80 \div 8 + 36 \div 9 \times 2$$

g.
$$6 \times 7 \div 14 \times 3 - 5$$

h.
$$15 + 30 \div 3 \times 5 - 2 \times 13$$

- a. ____
- c. ____

2. Barry gets his clothes washed for \$15. He buys 3 packs of Solution: detergent. He pays \$40 and get \$7 back. What was the price of a pack of detergent?

3. Luna pays \$15 per month for her telephone bill. On Solution: average, she makes an extra call for \$2 every month. How much does she pay in a year?

4. Samantha is sewing handkerchiefs. For first four days, she Solution: sewed 6 handkerchiefs each day. For next three days, she handkerchiefs each day. handkerchiefs did she sew in the whole week?

5. Derik started a business. He purchased 15 pillows online for \$4 each. He sold all these pillows in their village and made a profit of \$30. How much did he sell each pillow for?

Solution:

6. Father buys 3 packs of paper towels for \$5 each. He also buys 4 cans of milk for \$2 each. He pays with two \$10 and one \$5 bill. How much money does he have left?

Solution:

7. Carlo orders 2 coffees for \$5 each and 5 slices of cake for \$8 each. Which expression shows the money he spent?

A.
$$2 + 8 \times 5 + 8$$

$$C.2 + 5 + 5 + 8$$

B.
$$2 \times 5 + 5 \times 8$$

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.
$$2 \times 8 - 9 \div 3 + 6$$

b.
$$11 \times 7 - 60 + 44 \div 4$$

c.
$$35 - 3 \times 9 + 18$$

d.
$$12 \times 1 - 18 \div 2 + 13$$

e.
$$56 \div 8 - 3 + 4 \times 6$$

f.
$$80 \div 8 + 36 \div 9 \times 2$$

g.
$$6 \times 7 \div 14 \times 3 - 5$$

h.
$$15 + 30 \div 3 \times 5 - 2 \times 13$$

Solution:

a.
$$16 - 3 + 6 = 13 + 6 = 19$$

b.
$$77 - 60 + 11 = 17 + 11 = 28$$

c.
$$35 - 27 + 18 = 8 + 18 = 26$$

d.
$$12 - 9 + 13 = 3 + 13 = 16$$

e.
$$7-3+24=4+24=28$$

f.
$$10 + 4 \times 2 = 10 + 8 = 18$$

g.
$$42 \div 14 \times 3 - 5 = 3 \times 3 - 5 = 4$$

h.
$$15 + 10 \times 5 - 26 = 15 + 50 - 26 = 39$$

2. Barry gets his clothes washed for \$15. He buys 3 packs of detergent. He pays \$40 and get \$7 back. What was the price of a pack of detergent?

Solution:

$$(40 - 7 - 15) \div 3 = 18 \div 3 = 6$$

Answer: \$6

3. Luna pays \$15 per month for her telephone bill. On average, she makes an extra call for \$2 every month. How much does she pay in a year?

Solution:

$$12 \times (15 + 2) = 12 \times 17 = 204$$

Answer: \$204

4. Samantha is sewing handkerchiefs. For first four days, she sewed 6 handkerchiefs each day. For next three days, she sewed 8 handkerchiefs each day. How many handkerchiefs did she sew in the whole week?

Solution:

$$4 \times 6 + 3 \times 8 = 24 + 24 = 48$$

Answer: 48 handkerchiefs

5. Derik started a business. He purchased 15 pillows online for \$4 each. He sold all these pillows in their village and made a profit of \$30. How much did he sell each pillow for?

Solution:

$$(15 \times 4 + 30) \div 15 = 90 \div 15 = 6$$

Answer: \$6

6. Father buys 3 packs of paper towels for \$5 each. He also buys 4 cans of milk for \$2 each. He pays with two \$10 and one \$5 bill. How much money does he have left?

Solution:

$$(2 \times 10 + 5) - (3 \times 5 + 4 \times 2)$$

25 - 23 = 2; Answer: \$2

7. Carlo orders 2 coffees for \$5 each and 5 slices of cake for \$8 each. Which expression shows the money he spent?

A.
$$2 + 8 \times 5 + 8$$

$$C.2 + 5 + 5 + 8$$

B.
$$2 \times 5 + 5 \times 8$$

D. None of the above

B. $2 \times 5 + 5 \times 8$