

1. Abigail bought dog food at the store.

- She bought 6 bags.
- Each bag cost \$10.95.
- Abigail used a coupon for \$4.50 off her total cost of the dog food.

The total cost in dollars that Abigail paid for these 6 bags of dog food can be represented by this expression

$$(6 \times 10.95) - 4.50$$

How much did Abigail pay for the dog food she bought?

A. \$65.70	B. \$38.70
C. \$16.45	D. \$61.20

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

2. Finn bought hamburgers for his team.

- He bought 9 burgers.
- Each burger cost \$6.35.
- Finn used a coupon for \$8.50 off the total cost of the burgers.

The total cost in dollars that Finn paid for the 9 burgers can be represented by this expression

$$(9 \times 6.35) - 8.50$$

How much did Finn pay for the 9 burgers?

A. \$48.65	B. \$57.15
C. \$70.15	D. \$65.65

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

3. What is the value of the expression shown?

$$4[4.5 - 2(1.2)]$$

A. 8.4  
B. 15.6  
C. 12  
D. 19.2

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

4. Crystal bought items at a grocery store.

- She bought 2 boxes of crackers for \$3.50 each.
- She used a coupon for \$.80 off the price of each box of crackers.
- She bought a jar of peanut butter for \$4.85.
- She bought a package of juice boxes for \$2.40.
- She used a coupon for \$3.00 off the total price of the items she bought.

This expression can be used to determine the price of the items Crystal bought.

$$[2(3.50 - 0.80) + 4.85 + 2.40] - 3.00$$

What is the price of the items Crystal bought?

A. \$10.75	B. \$18.85
C. \$9.65	D. \$12.65

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

5. Jordyn bought items at a grocery store.

- She bought 2 gallons of milk for \$2.64 each.
- She used a coupon for \$.20 off the price of each gallon of milk.
- She bought a jar of picante sauce for \$3.48.
- She bought a package of cheese for \$7.48.
- She used a coupon for \$5.00 off the total price of the items she bought.

This expression can be used to determine the price of the items Jordyn bought.

$$[2(2.64 - 0.20) + 3.48 + 7.48] - 5.00$$

What is the price of the items Jordyn bought?

A. \$18.60	B. \$8.40
C. \$11.04	D. \$10.84

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

6. A chef used  $\frac{1}{4}$  cup of milk for one recipe. Then she used 2 cups of milk for each of 5 more recipes. The total number of cups of milk the chef used can be found by using this expression.

$$\frac{1}{4} + (2 \times 5)$$

How many cups of milk did the chef use?

- A.  $10\frac{1}{4}$  c  
B.  $11\frac{1}{4}$  c  
C.  $\frac{11}{4}$  c  
D.  $\frac{15}{4}$  c

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

**Unit: 5th – Simplifying Expressions**

**Lesson: 5.4.F - Simplifying Expressions: Decimals - Word Problems**

**Problem Set 1**

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1  D	2  A	3  A	4  C	5  D	6  A
7  C	8  B	9  C	10  B	11  A	12  B
13  A	14  C	15  D	16  D	17  B	18  C
19  A	20  D	21  A	22  \$52.50	23  \$49.75	24  D
25  C	26  B	27  D	28  \$92	29  \$18.50	30  A

7. Rebecca bought air filters at a store.

- She bought 8 air filters.
- Each air filter cost \$16.95.
- Rebecca used a coupon for \$7.50 off her total cost of the air filters.

The total cost in dollars that Rebecca paid for these 8 air filters can be represented by this expression

$$(8 \times 16.95) - 7.50$$

How much did Rebecca pay for these 8 air filters?

A. \$80.70	B. \$143.10
C. \$128.10	D. \$75.60

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

8. Dani bought cupcakes for a party.

- She bought 3 dozen.
- They cost \$12.35 per dozen.
- Dani had a discount that gave her \$10.50 off the total cost of her purchase.

The total cost in dollars that Dani paid for the three dozen cupcakes can be represented by this expression

$$(3 \times 12.35) - 10.50$$

How much did Dani pay for these cupcakes?

A. \$37.05	B. \$26.55
C. \$47.55	D. \$5.55

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

9. What is the value of the expression shown?

$$3[8.6 - 2(2.3)]$$

- A. 54.74
- B. 45.52
- C. 12
- D. 20

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

10. Nakita bought items at a grocery store.

- She bought 3 boxes of cereal for \$4.50 each.
- She used a coupon for \$0.60 off the price of each box of cereal.
- She bought some eggs for \$2.85.
- She bought a package of Cheez-dabs for \$6.40.
- She used a coupon for \$5.00 off the total price of the items she bought.

This expression can be used to determine the price of the items Nakita bought.

$$[3(4.50 - 0.60) + 2.85 + 6.40] - 5.00$$

What is the price of the items Nakita bought?

A. \$22.40	B. \$15.95
C. \$8.75	D. \$40.50

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

11. Kimber bought items at a grocery store.

- She bought 5 jars of pickles for \$1.98 each.
- She used a coupon for \$.15 off the price of each jar of pickles.
- She bought a loaf of bread for \$2.17.
- She bought a jar of mayonnaise for \$3.77.
- She used a coupon for \$3.50 off the total price of the items she bought.

This expression can be used to determine the price of the items Kimber bought.

$$[5(1.98 - 0.15) + 2.17 + 3.77] - 3.50$$

What is the price of the items Kimber bought?

A. \$11.59	B. \$51.94
C. \$12.19	D. \$18.59

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

12. A baker used  $\frac{3}{4}$  of a stick of butter for one recipe. Then she used 6 sticks of butter for each of 4 more recipes. The total number of sticks of butter can be found by using this expression.

$$\frac{3}{4} + (6 \times 4)$$

How many sticks of butter did the baker use?

- A. 18 sticks of butter
- B.  $24\frac{3}{4}$  sticks of butter
- C.  $12\frac{1}{4}$  sticks of butter
- D.  $18\frac{1}{4}$  sticks of butter

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

**Unit: 5th – Simplifying Expressions**

**Lesson: 5.4.F - Simplifying Expressions: Decimals - Word Problems**

**Problem Set 2**

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1  D	2  A	3  A	4  C	5  D	6  A
7  C	8  B	9  C	10  B	11  A	12  B
13  A	14  C	15  D	16  D	17  B	18  C
19  A	20  D	21  A	22  \$52.50	23  \$49.75	24  D
25  C	26  B	27  D	28  \$92	29  \$18.50	30  A

13. Brooklyn went shopping for shoes for her children.

- She bought 4 pairs of shoes.
- Each pair cost \$21.50.
- Brooklyn used store rewards for \$15.00 off the total cost of the shoes.

The total cost in dollars that Brooklyn paid for the shoes she bought can be represented by this expression

$$(4 \times 21.50) - 15.00$$

How much did Brooklyn pay for the shoes for her children?

A. \$71.00	B. \$26.00
C. \$84.00	D. \$38.50

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

14. Gabriella bought some picture frames.

- She bought 30 picture frames.
- Each frame cost \$8.95.
- Gabriella used a coupon for \$12.75 off her total cost of the picture frames.

The total cost in dollars that Gabriella paid for these 30 picture frames can be represented by this expression

$$(30 \times 8.95) - 12.75$$

How much did Gabriella pay for these 30 picture frames?

A. \$268.50	B. \$51.70
C. \$255.75	C. \$281.25

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

15. What is the value of the expression shown?

$$4[6.5 - 3(1.5)]$$

- A. 34.50
- B. 21.50
- C. 28
- D. 8

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

16. Emma bought items at a grocery store.

- She bought 4 12-packs of soda for \$5.25 each.
- She used a coupon for \$.75 off the price of each 12-pack.
- She bought a bag of apples for \$3.96.
- She bought a bag of sugar for \$5.20.
- She used a coupon for \$8.50 off the total price of the items she bought.

This expression can be used to determine the price of the items Emma bought.

$$[4(5.25 - 0.75) + 3.96 + 5.20] - 8.50$$

What is the price of the items Emma bought?

A. \$21.66	B. \$27.16
C. \$47.41	D. \$18.66

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

17. Asher bought items at a grocery store.

- He bought 4 packages of hot dogs for \$2.62 each.
- He used a coupon for \$.20 off the price of each package of hot dogs.
- He bought a bottle of mustard for \$3.48.
- He bought paper plates for \$10.78.
- He used store rewards for \$7.00 off the total price of the items he bought.

This expression can be used to determine the price of the items Asher bought.

$$[4(2.62 - 0.20) + 3.48 + 10.78] - 7.00$$

What is the price of the items Asher bought?

A. \$24.08	B. \$16.94
C. \$23.94	D. \$17.54

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

18. A painter used  $\frac{4}{5}$  of a can of paint to paint one wall. Then she used 3 cans of paint for each of 6 more rooms. The total cans of paint the painter used can be found by using this expression.

$$\frac{4}{5} + (3 \times 6)$$

How many cans of paint did the painter use?

- A.  $12\frac{4}{5}$  cans
- B.  $24\frac{4}{5}$  cans
- C.  $18\frac{4}{5}$  cans
- D.  $2\frac{2}{5}$  cans

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

**Unit: 5th – Simplifying Expressions**

**Lesson: 5.4.F - Simplifying Expressions: Decimals - Word Problems**

**Problem Set 3**

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1  D	2  A	3  A	4  C	5  D	6  A
7  C	8  B	9  C	10  B	11  A	12  B
13  A	14  C	15  D	16  D	17  B	18  C
19  A	20  D	21  A	22  \$52.50	23  \$49.75	24  D
25  C	26  B	27  D	28  \$92	29  \$18.50	30  A

19. An expression is shown.

$$6 \times (6.5 + 3.5) - 12$$

What value is equivalent to the expression?

- A. 48
- B. 30.5
- C. 4
- D. 60

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

20. Micah’s Burger Hut used  $\frac{1}{3}$  of a jar of pickles on a Friday afternoon, then the hut used 2 jars of pickles for each of the next 7 weeks. The total jars of pickles can be found by using this expression.

$$\frac{1}{3} + (2 \times 7)$$

How many jars of pickles did the Burger Hut use?

- A.  $\frac{14}{3}$  jars
- B.  $1\frac{4}{3}$  jars
- C.  $2\frac{7}{3}$  jars
- D.  $14\frac{1}{3}$  jars

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

21. Jeremiah bought lizards at the pet store.

- He bought 7 iguanas.
- Each iguana cost \$21.85.
- Jeremiah used a coupon for \$9.50 off the total cost of lizards.

The total cost in dollars that Jeremiah paid for these 7 lizards can be represented by this expression

$$(7 \times 21.85) - 9.50$$

How much did Jeremiah pay for the 7 iguanas?

A. \$143.45	B. \$153.65
C. \$163.15	D. \$86.45

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

22. At a clothing store, Zoey bought 2 shirts for \$7.25 each and 2 pairs of jeans for \$24 each. She used a coupon for \$10 off the total price of the clothes. The discounted price of the clothes Zoey bought can be found using this expression.

$$[2(7.25)+2(24)] - 10$$

What is the discounted price in dollars and cents of the clothes Zoey bought?

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

23. At a bookstore, Brock bought 3 magazines for \$6.95 each and 2 books for \$21.50 each. He used a gift card for \$12 off the total price of his purchase. The discounted price of the clothes Zoey bought can be found using this expression.

$$[3(6.25)+2(21.50)] - 12$$

What is the discounted price in dollars and cents of the items Brock bought?

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

24. Noah bought items at the office supply store.

- He bought 2 boxes of pencils for \$9.19 each.
- He used a coupon for \$0.20 off the price of each box of pencils.
- He bought a notebook for \$8.79.
- He bought some paperclips for \$7.09.
- He used a coupon for \$6.00 off the total price of the items he bought.

This expression can be used to determine the price of the items Noah bought.

$$[2(9.19 - 0.20) + 8.79 + 7.09] - 6.00$$

How much did Noah spend at the office supply store?

A. \$37.74	B. \$34.06
C. \$33.86	D. \$27.86

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

**Unit: 5th – Simplifying Expressions**

**Lesson: 5.4.F - Simplifying Expressions: Decimals - Word Problems**

**Problem Set 4**

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1  D	2  A	3  A	4  C	5  D	6  A
7  C	8  B	9  C	10  B	11  A	12  B
13  A	14  C	15  D	16  D	17  B	18  C
19  A	20  D	21  A	22  \$52.50	23  \$49.75	24  D
25  C	26  B	27  D	28  \$92	29  \$18.50	30  A



25. An expression is shown.

$$4 \times (7.3 + 5.2) - 15$$

What value is equivalent to the expression?

- A. 19.4
- B. 50
- C. 35
- D. 4.4

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

26. A hair stylist used  $\frac{2}{5}$  of a can of hairspray on Monday. Then he used 2 cans of hairspray a day for each of the next 4 days. The total cans of hairspray the stylist used can be found by using this expression.

$$\frac{2}{5} + (2 \times 4)$$

How many cans of hairspray did the stylist use?

- A.  $2\frac{4}{5}$  cans
- B.  $8\frac{2}{5}$  cans
- C.  $4\frac{2}{5}$  cans
- D.  $\frac{8}{5}$  cans

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

27. Jasmine bought dogfood at the pet store.

- She bought 7 bags of food.
- Each bag cost \$12.65.
- Jasmine also bought a new bowl for her dog Ralph for \$4.99.

The total cost in dollars that Jasmine paid for the 7 bags of dog food and the bowl can be represented by this expression

$$(7 \times 12.65) + 4.99$$

How much did Jasmine spend at the pet store?

A. \$83.56	B. \$88.55
C. \$123.48	D. \$93.54

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

28. At a toy store, Landon bought 4 action figures for \$9.25 each and 3 Lego kits for \$25 each. She used a coupon for \$20 off the total price of the purchase. The amount Landon spent at the toy store can be found using this expression.

$$[4(9.25)+3(25)] - 20$$

How much did Landon spend at the toy store?

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

29. At the fair, Jaylen played 5 games for \$1.50 each and rode 3 rides for \$2.25 each. He also bought a drink for 4.25. The amount Jaylen spent at the fair can be found using this expression.

$$[5(1.50)+3(2.25)] +4.25$$

How much did Jaylen spend at the fair?

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

30. Jordyn bought some items at the office supply store.

- She bought 5 packages of pens for \$4.99 each.
- She used a coupon for \$0.50 off the price of each package of pens.
- She bought a stapler for \$13.49
- She bought some scissors for \$5.49.
- She had enough rewards points to get \$9.00 off the total price of the items she bought.

This expression can be used to determine how much Jordyn spent.

$$[5(4.99 - 0.50) + 13.49 + 5.49] - 9.00$$

How much did Jordyn spend at the office supply store?

A. \$32.43	B. \$34.94
C. \$41.43	D. \$43.43

5.4.F - Simplifying Expressions: Decimals - Word Problems - PS

**Unit: 5th – Simplifying Expressions**

**Lesson: 5.4.F - Simplifying Expressions: Decimals - Word Problems**

**Problem Set 5**

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1  D	2  A	3  A	4  C	5  D	6  A
7  C	8  B	9  C	10  B	11  A	12  B
13  A	14  C	15  D	16  D	17  B	18  C
19  A	20  D	21  A	22  \$52.50	23  \$49.75	24  D
25  C	26  B	27  D	28  \$92	29  \$18.50	30  A