

#1 I don't want to be a janitor! Long Divisions Packet 1 Version 1

Multiple Choice*Identify the choice that best completes the statement or answers the question.***Divide.**

- _____ 1. $7 \overline{)539}$
a. 75 b. 81 c. 77 d. 79
- _____ 2. $4 \overline{)67}$
a. 14 b. 16 R3 c. 14 R5 d. 16 R5
- _____ 3. $9 \overline{)444}$
a. 49 R3 b. 52 R5 c. 49 R5 d. 52
- _____ 4. $14 \overline{)68}$
a. 4 R12 b. 7 R14 c. 7 d. 4 R14
- _____ 5. $33 \overline{)236}$
a. 7 R7 b. 10 R7 c. 10 d. 7 R5
- _____ 6. $7.2 \div 9$
a. 8 b. 0.08 c. 80 d. 0.8
- _____ 7. $43.048 \div 16$
a. 269.05 b. 0.26905 c. 2.6905 d. 26.905
- _____ 8. $2.3 \div 10 =$
a. 0.023 b. 0.0023 c. 23 d. 0.23
- _____ 9. $0.4 \overline{)1.59}$
a. 0.03975 b. 3.975 c. 0.3975 d. 39.75
- _____ 10. $4.3 \div 0.86$
a. 0.5 b. 500 c. 5 d. 50
- _____ 11. $70.38 \div 2.4$
a. 2.9325 b. 293.25 c. 2932.5 d. 29.325
- _____ 12. $9.207 \div 0.54$
a. 1.705 b. 1705 c. 17.05 d. 170.5
- _____ 13. $0.0069 \div 0.24$
a. 0.2875 b. 2.875 c. 0.02875 d. 0.002875
- _____ 14. $0.042 \div 5.6$
a. 0.00075 b. 0.0075 c. 0.75 d. 0.075

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- _____ 15. $9 \overline{)630}$
a. 70 b. 69 c. 67 d. 73
- _____ 16. $4 \overline{)297}$
a. 78 b. 74 R3 c. 74 R1 d. 78 R3
- _____ 17. $39 \overline{)92}$
a. 6 R16 b. 2 R16 c. 6 d. 2 R14
- _____ 18. $6.1 \div 0.01 =$
a. 61,000 b. 610 c. 61 d. 6,100
- _____ 19. $1.5 \div 0.24$
a. 0.625 b. 6.25 c. 62.5 d. 625
- _____ 20. $6.492 \div 0.96$
a. 0.67625 b. 6.7625 c. 67.625 d. 676.25
- _____ 21. $14.346 \div 0.18$
a. 7970 b. 797 c. 7.97 d. 79.7
- _____ 22. $4.425 \div 0.24$
a. 1.84375 b. 18.4375 c. 1843.75 d. 184.375

#2 I don't want to be a janitor! Rounding/Naming Numbers Packet 1 Version 1**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Round the number to the place value given.

- _____ 1. 619, the nearest ten
a. 610 b. 600 c. 620 d. 619
- _____ 2. 5,725, the nearest hundred
a. 5,730 b. 5,700 c. 6,000 d. 5,800
- _____ 3. 37.726, the nearest tenth
a. 37.7 b. 37.8 c. 37.73 d. 38
- _____ 4. 55.563, the nearest hundredth
a. 56 b. 55.6 c. 55.56 d. 55.57
- _____ 5. 879, the nearest ten
a. 900 b. 870 c. 879 d. 880
- _____ 6. 4,738, the nearest hundred
a. 4,700 b. 5,000 c. 4,740 d. 4,800
- _____ 7. 36.739, the nearest tenth
a. 36.74 b. 37 c. 36.8 d. 36.7
- _____ 8. 20.125, the nearest hundredth
a. 20 b. 20.13 c. 20.1 d. 20.12
- _____ 9. 117, the nearest ten
a. 120 b. 110 c. 117 d. 100
- _____ 10. 5,306, the nearest hundred
a. 5,310 b. 5,000 c. 5,300 d. 5,400
- _____ 11. 39.468, the nearest tenth
a. 39.4 b. 39 c. 39.47 d. 39.5
- _____ 12. 58.332, the nearest hundredth
a. 58.3 b. 58 c. 58.34 d. 58.33
- _____ 13. 53.144, the nearest tenth
a. 53.14 b. 53 c. 53.1 d. 53.2
- _____ 14. 39.879, the nearest tenth
a. 40 b. 39.8 c. 39.88 d. 39.9
- _____ 15. 6,651, the nearest hundred
a. 6,600 b. 6,650 c. 7,000 d. 6,700

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- _____ 16. What is the value of 3 in 0.3495?
a. thousandths b. ten-thousandths c. tenths d. hundredths
- _____ 17. Which digit is in the ten-thousandths place value of 907.1845?
a. 0 b. 7 c. 5 d. 2
- _____ 18. Write three thousand, seven hundred nineteen and eleven hundredths in standard notation.
a. 30,719.11 b. 3,719.011 c. 3,719.01 d. 3,719.11
- _____ 19. What is the value of 4 in 0.6483?
a. ten-thousandths b. thousandths c. hundredths d. tenths
- _____ 20. Which digit is in the tenths place value of 408.1795?
a. 6 b. 1 c. 5 d. 9
- _____ 21. Write four thousand, two hundred seventeen and thirteen thousandths in standard notation.
a. 4,217.013 b. 40,217.013 c. 4,217.003 d. 4,217.0013
- _____ 22. What is the value of 9 in 0.9184?
a. ten-thousandths b. thousandths c. tenths d. hundredths

#3 I don't want to be a janitor! Square Roots Packet 1 Version 1**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

Simplify the square root.

1. $\sqrt{16}$
a. 16 b. 0.4 c. 40 d. 4
2. $-\sqrt{25}$
a. -0.5 b. 5 c. -5 d. -25
3. $\sqrt{100}$
a. 1 b. 100 c. 100 d. 10
4. $\sqrt{1}$
a. 0.1 b. 1 c. 1 d. 10
5. $-\sqrt{81}$
a. 9 b. -81 c. -0.9 d. -9
6. $-\sqrt{64}$
a. -0.8 b. -8 c. 8 d. -64
7. $\sqrt{121}$
a. 1.1 b. 11 c. 121 d. 110

Estimate the square root to the nearest integer.

8. $\sqrt{40}$
a. 6 b. 8 c. 5 d. 7
9. $-\sqrt{75}$
a. -9 b. -8 c. -10 d. -11
10. $\sqrt{12}$
a. 2 b. 4 c. 5 d. 3
11. $\sqrt{95}$
a. 11 b. 9 c. 10 d. 12
12. $-\sqrt{125}$
a. -10 b. -11 c. -13 d. -12
13. $-\sqrt{24}$
a. -6 b. -5 c. -4 d. -7

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14. $-\sqrt{69}$
a. -9 b. -7 c. -8 d. -10

Simplify the square root.

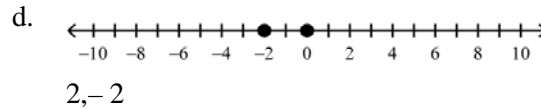
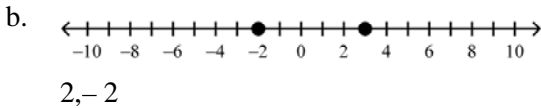
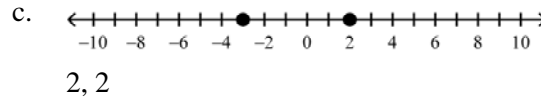
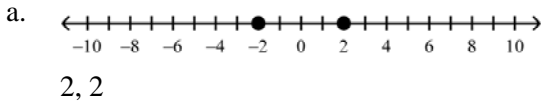
15. $\sqrt{49x^4}$
a. $7x^2$ b. $7x^4$ c. $25x^4$ d. $25x^2$
16. $\sqrt{80c^2}$
a. $4\sqrt{5c^2}$ b. $4c\sqrt{5}$ c. $c\sqrt{40}$ d. $7\sqrt{5c^2}$
17. $\sqrt{49x^{10}}$
a. $7x^3$ b. $25x^3$ c. $25x^5$ d. $7x^5$
18. $\sqrt{9x^6}$
a. $5x^2$ b. $5x^3$ c. $3x^3$ d. $3x^2$
19. $\sqrt{72a^4}$
a. $6a^2\sqrt{2}$ b. $8\sqrt{2a^4}$ c. $6\sqrt{2a^4}$ d. $a\sqrt{36}$
20. $\sqrt{16x^{10}}$
a. $8x^5$ b. $4x^3$ c. $8x^3$ d. $4x^5$

#4 I don't want to be a Janitor! Absolute Value Packet 1 Version 1

Multiple Choice

Identify the choice that best completes the statement or answers the question.

_____ 1. Use a number line to find the absolute value of 2 and -2.



_____ 2. Simplify $|-15|$.

- a. 15 b. $|15|$ c. $-|15|$ d. -15

Compare. Use $>$, $<$, or $=$ to complete the statement.

_____ 3. 7 \blacksquare $|-3|$

- a. $>$ b. $=$ c. $<$

_____ 4. $|10|$ \blacksquare -6

- a. $=$ b. $<$ c. $>$

_____ 5. $|-10|$ \blacksquare $|11|$

- a. $>$ b. $=$ c. $<$

_____ 6. -3 \blacksquare $|-3|$

- a. $<$ b. $>$ c. $=$

_____ 7. $|10|$ \blacksquare -4

- a. $<$ b. $=$ c. $>$

_____ 8. $|8|$ \blacksquare $|-11|$

- a. $<$ b. $>$ c. $=$

_____ 9. 10 \blacksquare $|-10|$

- a. $<$ b. $=$ c. $>$

___ 10. $|12|$ \blacksquare 5

a. $>$

b. $<$

c. $=$

___ 11. $|0|$ \blacksquare $|7|$

a. $>$

b. $=$

c. $<$

___ 12. Simplify $|-15|$.

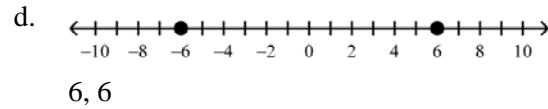
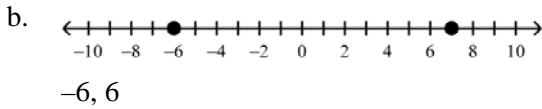
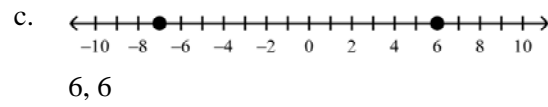
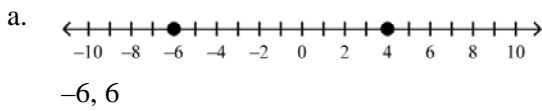
a. $-|15|$

b. -15

c. $|15|$

d. 15

___ 13. Use a number line to find the absolute value of -6 and 6.



___ 14. Simplify $-|-6|$.

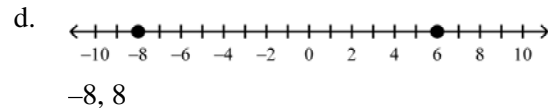
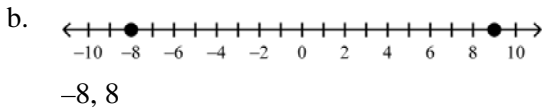
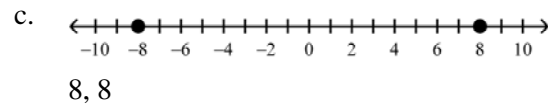
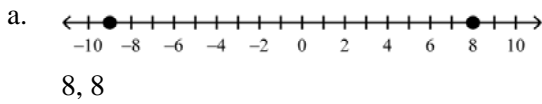
a. -6

b. $|6|$

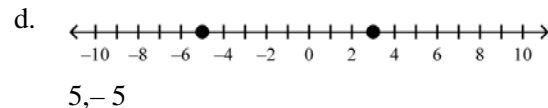
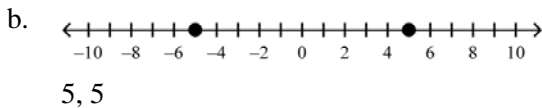
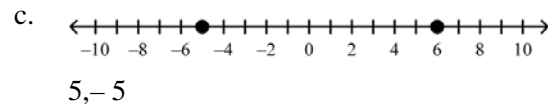
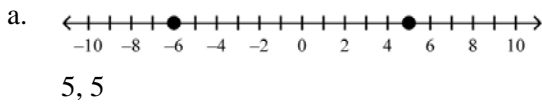
c. 6

d. $-|6|$

___ 15. Use a number line to find the absolute value of -8 and 8.



___ 16. Use a number line to find the absolute value of 5 and -5 .



#5 I don't want to be a Janitor! Evaluating Variable Expressions Packet 1 Version 1

Multiple Choice*Identify the choice that best completes the statement or answers the question.***Evaluate.**

- _____ 1. $6t - 6$, for $t = 6$
a. 30 b. 43 c. 42 d. 29
- _____ 2. $47 + 2d$, for $d = 3$
a. 138 b. 53 c. 139 d. 54
- _____ 3. $a \div 4$, for $a = 32$
a. 9 b. 6 c. 8 d. 7
- _____ 4. $\frac{dp}{d+p}$ for $d = 8$ and $p = 1$
a. 0.89 b. 1 c. 1.14 d. 8
- _____ 5. $4m - 8$, for $m = 3$
a. 21 b. 3 c. 4 d. 20
- _____ 6. $86 + 8c$, for $c = 3$
a. 110 b. 250 c. 249 d. 111
- _____ 7. $t \div 6$, for $t = 48$
a. 9 b. 8 c. 7 d. 6
- _____ 8. $\frac{zw}{z+w}$ for $z = 12$ and $w = 10$
a. 60 b. 10 c. 5.45 d. 12
- _____ 9. $6g - 9$, for $g = 3$
a. 8 b. 27 c. 9 d. 28
- _____ 10. $52 + 3n$, for $n = 10$
a. 83 b. 516 c. 82 d. 517
- _____ 11. $\frac{wn}{w+n}$ for $w = 13$ and $n = 8$
a. 13 b. 20.8 c. 4.95 d. 8
- _____ 12. $11w - 10$, for $w = 2$
a. 32 b. 11 c. 12 d. 33
- _____ 13. $49 + 2x$, for $x = 4$
a. 58 b. 57 c. 194 d. 193

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- _____ 14. $\frac{ac}{a+c}$ for $a = 16$ and $c = 3$
a. 3.69 b. 3 c. 16 d. 2.53
- _____ 15. $4b - 4$, for $b = 6$
a. 28 b. 19 c. 29 d. 20
- _____ 16. $78 + 7c$, for $c = 10$
a. 148 b. 149 c. 772 d. 773
- _____ 17. $\frac{qn}{q+n}$ for $q = 11$ and $n = 3$
a. 2.36 b. 11 c. 3 d. 4.13
- _____ 18. $5t - 8$, for $t = 12$
a. 68 b. 69 c. 52 d. 51
- _____ 19. $77 + 11g$, for $g = 5$
a. 132 b. 373 c. 133 d. 374
- _____ 20. $\frac{ck}{c+k}$ for $c = 11$ and $k = 6$
a. 11 b. 13.2 c. 3.88 d. 6
- _____ 21. $8c - 12$, for $c = 10$
a. 67 b. 92 c. 68 d. 93
- _____ 22. $63 + 8b$, for $b = 2$
a. 79 b. 117 c. 118 d. 80
- _____ 23. $310m + 3z + 12G$ for $m = 3$ and $z = 6$
a. 120 b. 180 c. 185 d. 156

#6 I don't want to be a Janitor! Order of Operations Packet 1 Version 1**Multiple Choice***Identify the choice that best completes the statement or answers the question.***Simplify.**

- _____ 1. $3 - 15 \cdot 5$
a. 0 b. 78 c. 90 d. -72
- _____ 2. $17 - 6 \cdot 10 \div 2 + 12$
a. 27.8 b. 59 c. 67 d. -1
- _____ 3. $5 \times (8 + 7) + 7$
a. 83 b. 53 c. 54 d. 82
- _____ 4. $[2 \cdot (10 + 5)] - 5$
a. 12.5 b. 20 c. 25 d. 120
- _____ 5. $6 - 15 \div 10$
a. -144 b. -0.9 c. 4.5 d. 7.5
- _____ 6. $23 - 24 \cdot 4 \div 10 + 21$
a. 20.6 b. 53.6 c. -16 d. 34.4
- _____ 7. $8 \times (6 + 3) + 4$
a. 77 b. 54 c. 55 d. 76
- _____ 8. $[4 \cdot (6 + 4)] + 5$
a. 22.5 b. 45 c. 33 d. 13
- _____ 9. $4 + 25 \cdot 2$
a. 54 b. 58 c. -46 d. 16.5
- _____ 10. $18 - 6 \div 5 \cdot 10 + 13$
a. 37 b. 28 c. 43 d. 19
- _____ 11. $6 \times (3 + 5) + 6$
a. 28 b. 54 c. 29 d. 55
- _____ 12. $[2 \cdot (5 + 8)] + 10$
a. 18 b. 28 c. 4 d. 36
- _____ 13. $3 - 15 \div 2$
a. -4.5 b. -27 c. -6 d. 10.5
- _____ 14. $23 + 10 \cdot 5 \div 4 - 14$
a. 21.5 b. 27.25 c. -3.5 d. 17
- _____ 15. $7 \times (4 + 5) + 8$
a. 41 b. 72 c. 71 d. 40

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- _____ 16. $[4 \cdot (7 - 10)] + 6$
a. 74 b. -3 c. 24 d. -6
- _____ 17. $5 + 25 \cdot 2$
a. -45 b. 55 c. 60 d. 17.5
- _____ 18. $22 + 10 \cdot 5 \div 2 - 11$
a. -14 b. 15 c. 69 d. 36
- _____ 19. $4 \times (6 + 9) + 4$
a. 64 b. 65 c. 37 d. 36
- _____ 20. $[3 \cdot (3 - 8)] + 3$
a. 36 b. -6 c. -12 d. 4
- _____ 21. $3 + 5 \div 10$
a. 53 b. 2.5 c. -0.2 d. 3.5
- _____ 22. $19 - 24 \cdot 10 \div 5 + 13$
a. -16 b. 20 c. 80 d. 3
- _____ 23. $6 \times (7 + 9) + 2$
a. 53 b. 99 c. 52 d. 98

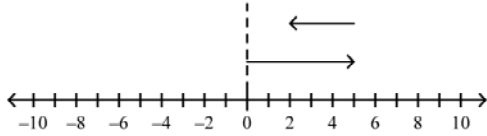
#7 I don't want to be a Janitor! Postiive/Negative Integers Packet 1 Version 1

Multiple Choice

Identify the choice that best completes the statement or answers the question.

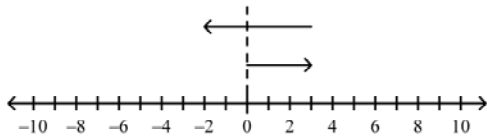
_____ 1. Use a number line to add $3 + (-5)$.

a.



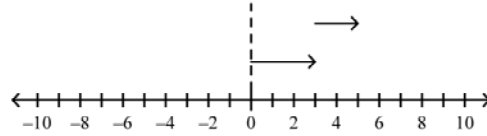
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b.



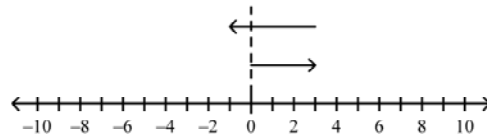
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c.



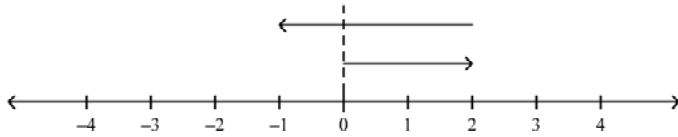
8

d.



-1

_____ 2. Write an expression for the model. Find the sum.



a. $2 + 3; 5$

b. $2 + (-3); 1$

c. $2 + (-3); -1$

d. $-3 + 2; 5$

Find the sum.

_____ 3. $32 + 30$

a. 55

b. 2

c. 67

d. 62

_____ 4. $-10 + 1 + (-6)$

a. -15

b. -17

c. -3

d. 5

_____ 5. $172 + (-167) + (-10) + (-144)$

a. -129

b. -149

c. 185

d. 139

_____ 6. $31 + 38$

a. 65

b. 69

c. -7

d. 71

_____ 7. $-8 + (-5) + (-9)$

a. -22

b. -4

c. -6

d. -12

_____ 8. $206 + (-255) + 147 + (-73)$

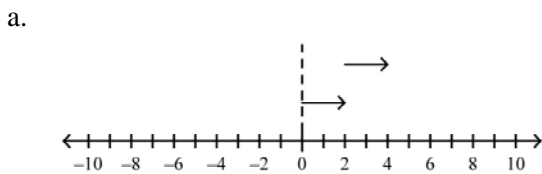
a. -269

b. 535

c. 25

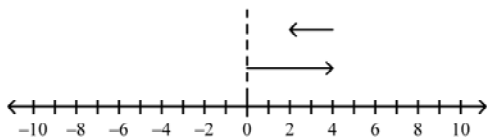
d. 171

- ___ 9. $42 + 238 + 16 + 120$
 a. 384 b. 416 c. 176 d. -60
- ___ 10. The temperature in your town is 31°F . The radio announcer says that the temperature will drop 15 degrees. Write an expression to compute the predicted temperature. What will the temperature be?
 a. $31 + (-15)$; 16°F c. $15 + 31$; 46°F
 b. $15 + (-31)$; -16°F d. $31 + 15$; 22°F
- ___ 11. Atoms contain charged particles called protons and electrons. Each proton has a charge of $+1$, and each electron has a charge of -1 . A sulfur ion has 16 protons and 18 electrons. Find the net charge.
 a. -34 b. +2 c. 34 d. -2
- ___ 12. Write the difference $48 - (-14)$ as a sum. Then simplify.
 a. $48 - 57$; -9 b. $48 + 57$; 105 c. $48 - 14$; 34 d. $48 + 14$; 62
- ___ 13. A submarine at the surface dives 375 ft and then another 175 ft. Express the final depth as an integer.
 a. -525 ft b. -550 ft c. 550 ft d. 525 ft
- ___ 14. A checking account is overdrawn if it has a negative balance. Marc's account is overdrawn by \$45. What will the balance be after he deposits \$170 and writes a check for \$59?
 a. -\$184 b. -\$156 c. \$184 d. \$66
- ___ 15. The temperature in your town is 86°F . The radio announcer says that the temperature will drop 17 degrees. Write an expression to compute the predicted temperature. What will the temperature be?
 a. $86 + (-17)$; 69°F c. $17 + (-86)$; -69°F
 b. $17 + 86$; 103°F d. $86 + 17$; 79°F
- ___ 16. Write the difference $65 - (-14)$ as a sum. Then simplify.
 a. $65 - 63$; 2 b. $65 + 63$; 128 c. $65 + 14$; 79 d. $65 - 14$; 51
- ___ 17. A submarine at the surface dives 575 ft and then another 175 ft. Express the final depth as an integer.
 a. -750 ft b. -725 ft c. 725 ft d. 750 ft
- ___ 18. Use a number line to add $2 + (-4)$.



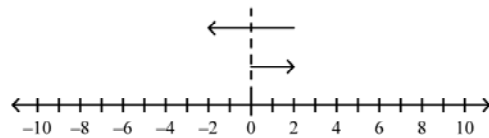
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b.



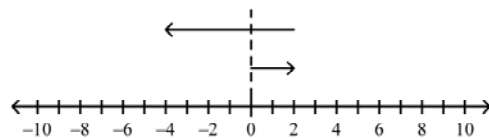
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c.



-2

d.



-4

#8 I don't want to be a Janitor! Product of Positive/Negative Integers Packet 1 Version 1

Multiple Choice*Identify the choice that best completes the statement or answers the question.***Write the sum as a product. Simplify the product.**

- _____ 1. $(-2) + (-2) + (-2) + (-2)$
a. $4(-2); -8$ c. $(-2) + (-2) + (-2) + (-2); -6$
b. $5(-2); -10$ d. $2(-2) + 2(-2); 10$
- _____ 2. $(-6) + (-6) + (-6) + (-6) + (-6) + (-6)$
a. $6(-6); -36$ c. $2(-6) + 2(-6) + 2(-6); -34$
b. $7(-6); -42$ d. $3(-6) + 2(-6); -30$
- _____ 3. $(-5) + (-5) + (-5) + (-5)$
a. $2(-5) + 2(-5); 22$ c. $5(-5); -25$
b. $4(-5); -20$ d. $(-5) + (-5) + (-5) + (-5); -18$
- _____ 4. $(-4) + (-4) + (-4) + (-4) + (-4) + (-4)$
a. $3(-4) + 2(-4); -20$ c. $2(-4) + 2(-4) + 2(-4); -22$
b. $6(-4); -24$ d. $7(-4); -28$
- _____ 5. $(-7) + (-7) + (-7) + (-7)$
a. $2(-7) + 2(-7); 30$ c. $4(-7); -28$
b. $5(-7); -35$ d. $(-7) + (-7) + (-7) + (-7); -26$
- _____ 6. $(-12) + (-12) + (-12) + (-12) + (-12) + (-12)$
a. $7(-12); -84$ c. $6(-12); -72$
b. $2(-12) + 2(-12) + 2(-12); -70$ d. $3(-12) + 2(-12); -60$
- _____ 7. $(-9) + (-9) + (-9) + (-9)$
a. $2(-9) + 2(-9); 38$ c. $4(-9); -36$
b. $5(-9); -45$ d. $(-9) + (-9) + (-9) + (-9); -34$

Simplify the product.

- _____ 8. $4(-7)$
a. -28 b. -30 c. -26 d. 16
- _____ 9. $-8(-9)$
a. 74 b. 72 c. 71 d. 70
- _____ 10. $-4 \cdot 10 \cdot 6$
a. -240 b. -241 c. -238 d. -40
- _____ 11. $4(-5)$
a. -22 b. -20 c. -18 d. 16
- _____ 12. $-4(-9)$
a. 38 b. 34 c. 35 d. 36

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- _____ 13. $-8 \cdot 6 \cdot 6$
a. -48 b. -286 c. -289 d. -288
- _____ 14. $5(-5)$
a. -25 b. 25 c. -27 d. -23
- _____ 15. $-6(-6)$
a. 36 b. 34 c. 35 d. 38
- _____ 16. $-3 \cdot 5 \cdot 9$
a. -135 b. -133 c. -136 d. -15
- _____ 17. $9(-9)$
a. -81 b. -79 c. -83 d. 81
- _____ 18. $-9(-6)$
a. 53 b. 52 c. 54 d. 56
- _____ 19. $-8 \cdot 11 \cdot 11$
a. -966 b. -88 c. -969 d. -968
- _____ 20. $-3 \cdot 8 \cdot 5$
a. -120 b. -118 c. -121 d. -24
- _____ 21. $-4 \cdot 6 \cdot 4$
a. -97 b. -94 c. -24 d. -96
- _____ 22. Find the quotient $-88 \div 11$.
a. -10 b. -7 c. -8 d. -3