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Namo			

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Choose which of the following descriptions apply to the number (more than one may apply): whole, integer, rational, irrational, real.

- 1) 71
 - A) Real, rational, integer
 - C) Real, rational, whole

- B) Real
- D) Real, rational, integer, whole

Answer: D

- 2) -98
 - A) Real, rational, integer, whole
 - C) Real, rational, integer

- B) Real, rational
- D) Real, irrational

Answer: C

- 3) $\sqrt{5}$
 - A) Real
 - C) Real, irrational

Answer: C

- B) Real, irrational, integer
- D) Real, rational

- 4) 0
- A) Real, rational, integer, whole
- C) Real, rational, integer

- B) Real, whole
- D) Real, rational

- Answer: A
- 5) 6.76
 - A) Rational
 - C) Rational, real
 - Answer: C

- B) Whole, rational, real
- D) Real, irrational

- 6) 0.110110...
 - A) Whole, rational, real
 - C) Rational, real

- B) Real
- D) Irrational, real

- Answer: C
- 7) $\frac{7}{16}$
 - A) Real, rational, integer
 - C) Real, irrational

- B) Real, whole
- D) Real, rational

- Answer: D
- 8) $-\sqrt{12}$
 - A) Real, integer
- B) Real, rational
- C) Real, whole
- D) Real, irrational

9)	0.68140 [nonrepeating, nonterminating]A) Real, irrational, integerC) Real, rationalAnswer: B	B) Real, irrational D) Real
	Allswei. D	
10)	$-\frac{3}{7}$	
	A) Real, whole C) Real, irrational	B) Real, rational D) Real, rational, integer
	Answer: B	
	number to represent the situation. They hiked 121 feet below sea level. A) -121 Answer: A	B) +121
12)	The thermometer read 38° below zero. A) -38	B) +38
	Answer: A	2,
13)	The stock experienced a \$324 profit. A) +324	B) -324
	Answer: A	
14)	After a year at Weight Watchers, Simone had lost 12 pounds A) -12	B) +12
	Answer: A	
15)	The little girl was upset at losing 42 cents. A) +42	B) -42
	Answer: B	
16)	The team gave up 17 points. A) +17	B) -17
	Answer: B	
17)	Roseanne lost \$838.93 on the stock market. A) +838.93	B) -838.93
	Answer: B	
18)	Joey grew $1\frac{3}{4}$ inches in the span of two years.	
	A) $-1\frac{3}{4}$	B) $+1\frac{3}{4}$

Use a

Answer: B

Find the additive inverse (opposite).

19) 23

A)
$$\frac{1}{23}$$

B) 23

C) 0

D) -23

Answer: D

20) -22

B) $-\frac{1}{22}$

C) 0

D) -22

Answer: A

21) $\frac{9}{2}$

A)
$$-\frac{2}{9}$$

B) $\frac{2}{9}$

C)
$$-\frac{9}{2}$$

D) $\frac{9}{2}$

Answer: C

22) $-\frac{3}{8}$

A)
$$-\frac{8}{3}$$

B)
$$-\frac{3}{8}$$

C)
$$\frac{3}{8}$$

D) $\frac{8}{3}$

Answer: C

23) 5.3

A)
$$-\frac{1}{5.3}$$

B) 5.3

C)
$$\frac{1}{5.3}$$

D) -5.3

Answer: D

24) -3.4

A)
$$-\frac{1}{3.4}$$

B) -3.4

C) 3.4

D) $\frac{1}{3.4}$

Answer: C

Find the absolute value.

25) | 20 |

A) 0 Answer: B B) 20

C) -20

D) 40

26) |-18|

A) -18 Answer: D B) 36

C) 0

D) 18

27) |-16.0|

A) 32

B) 16.0

C) -16.0

D) 0

Answer: B

28) |-0.012| A) -0.012

B) 0

C) 0.012

D) 0.024

Answer: C

29) $\left| -\frac{10}{17} \right|$ A) 0

B) $\frac{20}{17}$

C) $-\frac{10}{17}$

D) $\frac{10}{17}$

Answer: D

- 30) $\left| \frac{1}{2} \right|$
 - A) 1
- B) 0

C) $\frac{1}{2}$

D) $-\frac{1}{2}$

Answer: C

Add.

31) 40 + 24 A) 16

B) 65

C) 63

D) 64

- Answer: D
- 32) -13 + (-16) A) 29

B) 3

C) -3

D) -29

- Answer: D
- 33) -17.4 + (-15.2) A) 2.2 Answer: D
- B) -2.2

C) 32.6

D) -32.6

- 34) $-\frac{5}{17} + \left(-\frac{4}{17}\right)$ A) $-\frac{9}{34}$
- B) $\frac{1}{17}$

C) $\frac{9}{17}$

D) $-\frac{9}{17}$

Answer: D

35) $-\left(\frac{3}{4} + \frac{3}{20}\right)$ A) $-\frac{9}{10}$

B) $-\frac{1}{4}$

C) $-\frac{73}{80}$

D) $-\frac{3}{10}$

Answer: A

36) - 5.36 + (- 13.4) A) -18.76

Answer: A

B) -18.4

C) -8.04

D) 8.04

- 37) 2 + (-12)
 - A) 10 B) 14

C) -10

D) -14

38) -19 + 10 A) -29

B) -9

C) 9

D) 29

Answer: B

39) -2.2 + (-16.3) A) -18.5

Answer: A

B) 14.1

C) 18.5

D) -14.1

40) -76 + 70 A) 146

B)

C) -146

D) -6

- Answer: D
- 41) 2.247 + (-2.880) A)
- B) -0.633

C) -5.127

D) -5.027

- Answer: B
- 42) 7.54 + (- 1.2) A)

B) -8.74

C) -6.34

D)

- Answer: A
- 43) $\frac{3}{4}$ + $\left(-\frac{5}{8}\right)$
 - A) $-\frac{11}{8}$

B) $\frac{1}{8}$

C) $-\frac{1}{8}$

D) $\frac{11}{8}$

- Answer: B
- 44) $-\frac{3}{8}+\frac{7}{9}$
 - A) $\frac{4}{9}$

B) $\frac{29}{72}$

C) $\frac{1}{18}$

D) $\frac{29}{9}$

- Answer: B
- 45) $\frac{6}{7} + \left(-\frac{1}{3}\right)$ A) $\frac{11}{21}$

B) $\frac{11}{7}$

C) $\frac{5}{7}$

D) $\frac{5}{21}$

- Answer: A
- 46) -9 + (- 14) + 19 A) -42
- B) -4

C)

D) 24

- Answer: B
- 47) 12 + (-22) + 4 + (-2) A) -8
- B) -12

C) 40

D) -16

	48) 8.29 + 12.48 + (- 7.5) A) -3.31	B) 28.27	C) 13.27	D) -11.69
	Answer: C			
	49) -1.2 + 0.2 + (-0.8) + 0.1 A) 0.7	B) -1.7	C) 2.5	D) -0.1
	Answer: B	•	,	,
Solva	the problem.			
30176	50) A deep-sea diver dives from t	the surface to 80 feet below th	e surface. She then dives dow	n 16 more feet. Find the
	diver's depth.			
	A) 62 feet below the surface		B) 99 feet below the surface	
	C) 96 feet below the surface		D) 64 feet below the surface	
	Answer: C			
	51) Lauren scored 13 points in her Saturday. Find her total points		, 11 on Wednesday, 14 on Frid	day, and 19 on
	A) 57 points	B) 56 points	C) 58 points	D) 38 points
	Answer: A			
	52) The Neighborhood Lemonade years. What was its total net in		mes of -\$250, -\$427, and -\$11	7 for the past three
	A) -\$794	B) -\$677	C) -\$544	D) \$794
	Answer: A			
	53) On part of a scenic tour of unc They then rose 22 feet. Repres	=		1 feet below sea level.
	A) 63 feet	B) -19 feet	C) -63 feet	D) 19 feet
	Answer: B			
	54) At the start of a chemistry exp the experiment, it had risen 33 A) 49° C			
	Answer: D			
	55) In a card game, it is possible to points?	o have a negative score. If Elli	e's score is 22, what is her nev	v score if she loses 27
	A) 49 points	B) -49 points	C) 5 points	D) -5 points
	Answer: D			
	56) A deep-sea diver dives from to meters, down another 28 meters. A) 210 meters below the su C) 120 meters below the su	ers, and then up 25 meters. Fir Irface		e movements. face
	Answer: A			
	57) Jared borrowed \$223 from his much does he still owe her?	friend Linda. He paid her bad	ck \$25, but then had to borrov	v another \$78. How
	A) \$170	B) \$276	C) \$326	D) \$120

Answer: B

5	8) The population of a particular species of insect was 10,000 in 1960. In 1980, there were 600 fewer, and this year there are 3800 fewer. What is the current population?				
	A) 6800 insects	B) 14,400 insects	C) 13,200 insects	D) 5600 insects	
	Answer: D				
5	9) The temperature on a Decemb a.m., and then drops 7° by 6a.r	m., find the temperature at 6 a	a.m.	-	
	A) -25° F	B) -9° F	C) 9° F	D) 25° F	
	Answer: B				
6	0) Tori has \$279 in her checking a another check for \$67. Find the	amount left in her account.	(Write the amount as an integ		
	A) -280 dollars	B) dollars	C) -98 dollars	D) 280 dollars	
	Answer: D				
Subtrac	t. 1) 1 - 3				
O	A) -4	B) 4	C) 2	D) -2	
	Answer: D	<i>b)</i> 4	0) 2	<i>D</i>) <i>Z</i>	
6	2) -7 - 8	- >	-> -	->	
	A) -1	B) 15	C) 1	D) -15	
	Answer: D				
6	3) -13 - (-5)				
	A) 8	B) -18	C) -8	D) 18	
	Answer: C				
6	4) 13 - (-2)				
	A) -15	B) -11	C) 11	D) 15	
	Answer: D				
6	5) -13 - 13				
	A) 0	B) -13	C) 26	D) -26	
	Answer: D				
6	6) -5 - (-5)				
	A) 5	B) -5	C) 0	D) 1	
	Answer: C				
6	7) 0 - (-18)				
	A) 0	B) 36	C) -18	D) 18	
	Answer: D				
6	8) 16 - (-16)				
	A) -32	B) 16	C) 0	D) 32	
	Answer: D				

69) 33 - 55 A) -88

B) 22

C) -22

D) 88

- Answer: C
- 70) -15 (-98) A) 83 Answer: A

B) -83

C) 113

D) -113

71) $-\frac{3}{5} - \left(\frac{1}{5}\right)$ A) $-\frac{4}{5}$

B) $\frac{4}{5}$

C) $\frac{2}{5}$

D) $-\frac{2}{25}$

Answer: A

72) $\frac{1}{7} - \left(\frac{8}{63}\right)$ A) $-\frac{1}{63}$

В) —

C) —

D) —

Answer: B

- 73) $\frac{5}{8}$ 8
 - A) $-\frac{3}{8}$

B) $-\frac{69}{8}$

C) $\frac{59}{8}$

D) $-\frac{59}{8}$

Answer: D

- 74) $\frac{7}{8}$ (-2)
 - A) $\frac{5}{8}$

B) $\frac{23}{8}$

C) $\frac{9}{8}$

D) $-\frac{9}{8}$

Answer: B

- 75) 8 $\left(-\frac{5}{6}\right)$
 - A) —

B) $\frac{53}{6}$

C) $\frac{13}{6}$

D) $\frac{43}{6}$

Answer: B

76) -8.8 - (-2.6) A) -11.4

B) -6.2

C) 11.4

D) 6.2

77) (0.80) - (-0.80)

Answer: B

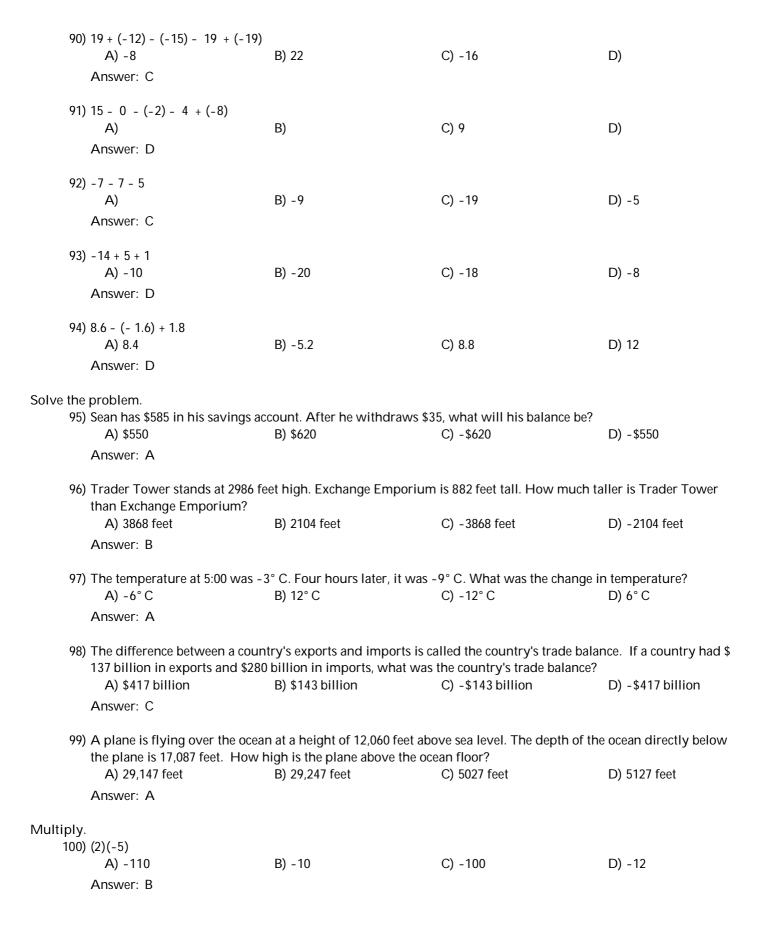
A) 0.1

B) 0

C) 1.6

D) -0.64

78) 3.98 - 4.96 A) 8.94 Answer: B	B) -0.98	C) -8.94	D) 0.98
79) 110 - (-65.5) A) Answer: C	B) -44.5	C)	D) -175.5
80) -10 - (-9.579) A) -0.421 Answer: A	В)	C) 19.579	D) -19.579
81) Subtract -2 from 1. A) -1 Answer: B	B) 3	C) -3	D) 1
82) Subtract -2 from -10. A) 12 Answer: B	B) -8	C) -12	D)
83) Subtract 36 from -12. A) -24 Answer: B	B) -48	C) 48	D) 24
84) Subtract -5 from -27. A) 32 Answer: D	B) 22	C) -32	D) -22
Combine the numbers. 85) 6 + (-10) - (-17) A) -13 Answer: C	B) -1	C) 13	D) -21
86) -2 - (-17) + (-5) A) -24 Answer: C	B) -10	C) 10	D) -14
87) 20 - (-15) + 15 + (-12) A) 32 Answer: D	B) -8	C) -32	D) 38
88) -5 + 8 - (-3) + 16 A) Answer: B	B) 22	C) -10	D)
89) 12 + (-18) - (-1) - 7 A) -12 Answer: A	B) 2	C) 36	D) 0



101) (-9)(2) A) -18

B) -20

C) -118

D) -180

- Answer: A
- 102) (-4)(-9) A) -36 Answer: C

B) 72

C) 36

D) 46

103) -14(0) A) -28

B) 0

C) 14

D) -14

- Answer: B
- $(54) \left(\frac{54}{49}\right)\left(\frac{7}{9}\right)$ A) 1\frac{5}{49}

B) $\frac{6}{7}$

C) $\frac{7}{9}$

D) $-\frac{6}{7}$

- Answer: D
- 105) $\left(\frac{13}{5}\right) \left(-\frac{7}{3}\right)$ A) - 27

B) - $\frac{91}{15}$

C) - 182

D) $-\frac{9}{10}$

- Answer: B
- 106) $\left[-\frac{3}{10} \left(-\frac{1}{5} \right) \right]$ A) $-\frac{6}{25}$

B) $\frac{9}{25}$

C) $\frac{3}{50}$

D) $-\frac{1}{25}$

Answer: C

Answer: C

Answer: B

107) 3.6(-6.00) A) 9.7

B) 9.6

C) -21.6

D) -2.4

108) -2.3(-14) A) 16.3

B) 32.2

C) -16.3

D) -11.7

- 109) $3\left(-\frac{3}{4}\right)$
 - A) —

B) - 4

C)

D) $-\frac{9}{4}$

- Answer: D
- 110) 2(6)(-9)
 - A) -108
- B) 108

C) 3

D) -1

111) 2(5)(-2)(1)

A) 6

B) -6

C) 20

D) -20

Answer: D

112) -5(2)(2)(-3)(-1)

A) -5

B) 5

C) -60

D) 60

Answer: C

113) 4(-5)(0)(-4)

A) 0

B) -5

C) -80

D) 80

Answer: A

114) 3(0.004)(70)(-0.8)

A) 6.72

B) 0.672

C) -6.72

D) -0.672

Answer: D

115) (4.4)(8.5)(-5.9)(-6.2)

A) -1368.092

B) -220.66

C) 220.66

D) 1368.092

Answer: D

116) $(-1000)(0.08)(-97)(11)\left[-\frac{1}{10}\right]$

A) -853.6

B) 8536

C) 853.6

D) -8536

Answer: D

 $117) \left(\frac{2}{7}\right) \left(-\frac{3}{8}\right) \left(-\frac{1}{6}\right)$

A) $-\frac{2}{21}$

B) $-\frac{3}{28}$

C) —

D) —

Answer: D

118) $\left[\frac{7}{10}\right] - \frac{5}{19}\left] - \frac{4}{5}\right]$

A) —

B) $-\frac{2}{7}$

C) ——

D) $-\frac{7}{38}$

Answer: A

 $119) \left[\frac{2}{7} \right] \left(\frac{4}{5} \right) \left(-\frac{5}{9} \right) \left(\frac{5}{8} \right)$

A) $-\frac{1}{420}$

B) $\frac{5}{63}$

C) $\frac{1}{420}$

D) $-\frac{5}{63}$

Answer: D

Divide and write the answer in simplest form.

120) -85 ÷ 5

A) - 27

B) 17

C) -17

D) $-\frac{1}{17}$

- 121) 138 ÷ (-6)
 - A) -23

B) -33

C) $-\frac{1}{23}$

D) 23

Answer: A

122) 0 ÷ 40 A) -40

B) 0

- C) Undefined
- D) 1

Answer: B

- 123) -102 ÷ (-6) A) 17
- B) $\frac{1}{17}$

C) 7

D) -17

Answer: A

- $124) -8.1 \div 0.09$
 - A) -80.1

B) -8.01

C) -90

D) $\frac{1}{90}$

Answer: C

Answer: A

125) - 7.2 ÷ 9 A) - 0.8

B) 8

C) - 8

D) - 0.08

- 126) $-\frac{5}{4} \div \frac{11}{3}$
 - A) $\frac{15}{44}$

B) $-\frac{55}{12}$

C) $-\frac{15}{44}$

D) $\frac{55}{12}$

Answer: C

127) $-\frac{1}{3} \div \left(-\frac{5}{14}\right)$ A) $\frac{14}{15}$

B) $-\frac{5}{42}$

C) $-\frac{14}{15}$

D) $\frac{15}{14}$

Answer: A

128) $\frac{3}{5} \div \left(-\frac{9}{13} \right)$ A) $\frac{13}{15}$

B) - $\frac{13}{15}$

C) $\frac{15}{13}$

D) $-\frac{27}{65}$

Answer: B

A) —

B) $\frac{4}{15}$

C) —

D) $\frac{1}{2}$

Answer: A

Solve the problem.

130) At the end of last year, Widgets Unlimited, Inc. posted a net income of -\$223.4 billion. If this continues, what would its income be after three years?

A) -\$670.2 billion

B) -\$226.4 billion

C) -\$6702 billion

D) \$670.2 billion

Answer: A

131) Chris lost \$9.08 playing poker in one week. If this continued, what would be his net winnings or losses after five weeks?

A) \$45.40

B) -\$4540.00

C) -\$454.00

D) -\$45.40

Answer: D

132) Ben lost \$160 on each of 8 consecutive days in the stock market. If he had \$15,339 before his loss, how much does he have after his loss?

A) \$1280

B) \$15,179

C) \$16,619

D) \$14,059

Answer: D

133) A weather forecaster predicts that the temperature will drop 3 degrees each hour for the next 5 hours. If the temperature is -3 degrees before the temperature starts falling, what is the temperature after the drop?

A) 15°

B) -11°

C) -15°

D) -18°

Answer: D

134) Your favorite stock opened the day's trading at \$43.21 per share. When trading closed for the day, your stock was priced at \$35.50 per share. If you own 120 shares, what was your profit or loss that day?

A) A loss of \$7.71

B) A loss of \$925.20

C) A profit of \$925.20

D) A profit of \$7.71

Answer: B

135) Christina made a chart summarizing her shop's financial performance over the past three years.

Description	Number	Average Monthly	
of Month		Income or Loss	
		(in hundreds of dollars)	
Excellent	6	+\$16	
Good	9	+\$6	
Neutral	15	\$0	
Poor	4	-\$3	
Very poor	2	-\$5	

How much money was made in the months described as "Good"?

A) \$5400

B) \$1000

C) \$1200

D) \$9600

136) Christina made a chart summarizing her shop's financial performance over the past three years.

Description	Number	Average Monthly
of Month	of Months	Income or Loss
		(in hundreds of dollars)
Excellent	6	+\$18
Good	9	+\$5
Neutral	15	\$0
Poor	4	-\$1
Very poor	2	-\$4
	•	•

How much money was lost in the months described as "Poor"?

A) \$4500

B) \$10,800

C) \$800

D) \$400

Answer: D

137) The table below summarizes the plays that a football team made while in possession of the football during their game.

Type of Play	Number of Plays	Average Yards Gained or Lost per Play
Large gain	4	+25
Medium gain	7	+15
Small gain	6	+5
Zero gain	10	0
Small loss	9	-5
Medium loss	5	-10
Large loss	1	-15

If the total yards gained	in small gains were combined wi	th the total yards lost in sma	all losses, what would be th
A) A loss of 3 yards	B) A gain of 75 yards	C) A loss of 15 yards	D) A gain of 15 yards

Answer: C

138)	Adam owes \$5400 in student loans. If he agrees to consolidate the loans and repay the total amount	t over 6	0
	months, what would his monthly payment be?		

A) \$90

B) \$540

C) \$600

D) \$450

Answer: A

139) Juanita arranged for a car loan of \$11,200. If her monthly payments are \$560, how many months will it take her to pay off the loan?

A) 80 months

B) 20 months

C) 70 months

D) 200 months

Answer: B

140) Sally will pay \$10,560 on her student loan over the next 4 years. If \$220 is automatically deducted from her bank account each month to pay off the loan, how much does she still owe after one year?

A) \$7920

B) \$13,200

C) \$2640

D) \$8360

Answer: A

Write the expression in exponent form.

141) (5)(5)

A) 2⁵

B) 2 · 5

C) 5^2

D) 5^{3}

142) (7)(7)(7) A) 3 ⁷ Answer: B	B) 7 ³	C) 7 ¹	D) 3 · 7
143) (19)(19)(19) A) 19 ⁴ Answer: A	B) 19 ¹	C) 4 ¹⁹	D) 4 · 19
144) (7)(7)(7)(7)(7) A) 5 ⁷ Answer: C	B) 7· 5	C) 7 ⁵	D) 7 ⁷
145) (4)(4)(4)(4)(4) A) 4 ⁶ Answer: A	B) 6 ⁴	C) 4 ⁵	D) 24
146) (4)(4)(2)(2)(2)(2) A) (2 ⁴)(4 ²) Answer: B	B) (4 ²)(2 ⁴)	C) 86	D) (4)(2 ⁶)
147) (x)(x)(x)(x) A) 4 Answer: C	B) 4 ^X	C) x ⁴	D) 4x
148) -2(x)(x)(x)(x) A) (-2x) ⁴ Answer: C	B) -2(4 ^X)	C) -2x ⁴	D) -(2x) ⁴
149) (12y)(12y)(12y)(12y)(12y) A) 12y ⁵ Answer: B	B) (12y) ⁵	C) 60y ⁵	D) 5y ¹²
Evaluate. 150) 5 ² A) -25 Answer: D	B) -10	C) 10	D) 25
151) -3 ² A) -6 Answer: D	B) 6	C) 9	D) -9
152) (-7) ³ A) 21 Answer: D	B) -21	C) 343	D) -343

153) (-6)² A) 36 Answer: A

B) 12

C) -36

D)

154) 2⁹ A) 512

Answer: A

B) 81

C) 256

D) 18

155) $\left(\frac{2}{3}\right)^3$ A) $3\frac{2}{3}$

B) $\frac{8}{27}$

C) $\frac{27}{8}$

D) $\frac{8}{3}$

- Answer: B
- 156) $\left(\frac{1}{8}\right)^2$ A) $\frac{1}{64}$

B) $\frac{1}{10}$

C) $\frac{1}{16}$

D) $\frac{1}{4}$

- Answer: A
- $157) \left(\frac{6}{7}\right)^4$ A) $\frac{24}{7}$

B) $\frac{1296}{7}$

C) $\frac{1}{4}$

D) $\frac{1296}{2401}$

Answer: D

Answer: C

Answer: D

158) (0.7)²
A) 1.4
Answer: B

B) 0.49

C) 49

D) 0.35

159) (1.5)³ A) 4.5

B) 4.096

C) 3.375

D) 2.25

160) 8² + 3⁴ A) 97

B) 28

C) 76

D) 145

161) 5³ - 3² A) Answer: D

B) 134

C)

D)

- 162) (-12)² (-6)³
 - A) 360

B) -72

C) 72

D) -360

163)) (-10) ² (-7) ³ A) 420 Answer: D	B) 34,300	C) -420	D) -34,300
164)) 9 ² (-6) ³ A) 1458 Answer: C	B) 17,496	C) -17,496	D) -1458
165)) 7 ³ - (-9) ² A) Answer: A	B) 39	C) 424	D) -60
166)) 2 ³ - (-4) ⁴ A) 265 Answer: B	B) -248	C) 264	D) 22
167)) (10 - 4) ² ÷ 3 × 4 A) 48 Answer: A	B) 27	C) 3	D)
168)) 19 · 11 + 16 · 13 A) 6669 Answer: B	B) 417	C) 2925	D) 4161
169)	A) $6 + 60 \div 60 \cdot 2^2$ A) $\frac{33}{5}$ Answer: C	B) 9	C) 10	D) 264 5
170)) 79 - 17 · 2 + 114 ÷ (-6) A) -30 Answer: C	B) -1199	C) 26	D) 105
171)) (-5 - 2)(-4 + 5) - 4 ² A) 16 Answer: D	B) 1	C) 9	D) -23
172)) 7·7 - 5(2) ² ÷ (-2) A) -88 Answer: B	B) 59	C) 99	D) - 29/2
173)	9 · 2 - 6(3 - 5) ² A) -25	B) -126	C) 48	D) -6

174)
$$\frac{3}{5} \div \frac{3}{5} - 10 \cdot \left(\frac{1}{2}\right)^2$$

A) - 24

B) $-\frac{9}{10}$

C) $-\frac{9}{4}$

D) $-\frac{3}{2}$

Answer: D

175)
$$\frac{1}{2} + \frac{1}{2} \div \left(-\frac{2}{5}\right) \cdot \frac{3}{4}$$

A) $-\frac{7}{6}$

B) $-\frac{7}{16}$

C) - $\frac{10}{3}$

D) - $\frac{15}{9}$

Answer: B

B) -25.2

C) -0.0144

D) 1.7568

Answer: D

Solve the problem.

- 177) Scores in golf can be positive or negative integers. For example, a score of 7 over par can be represented by +7 and a score of 2 under par can be represented by -2. If Donna had scores of 6 over par, 4 under par, and 5 under par for three games of golf, what was her total score?
 - A) 15 or 15 over par

B) 3 or 3 over par

C) -15 or 15 under par

D) -3 or 3 under par

Answer: D

Use the distributive property to simplify.

A)
$$-2m + 5n + 9p$$

B)
$$2m - 5n + 9p$$

D)
$$-2m + 5n - 9p$$

Answer: B

179)
$$6(x + 8y)$$

A)
$$6 + 48y$$

C)
$$6x + 8y$$

Answer: B

Answer: D

Answer: C

182)
$$-6x(x - 5y - 6z)$$

A)
$$-6x^2 - 5y - 6z$$

B)
$$-6x^2 - 30xy - 36xz$$

B)
$$-6x^2 - 30xy - 36xz$$
 C) $-6x^2 + 30xy + 36xz$

D)
$$-6x + 30y + 36z$$

Answer: C

A)
$$8x^2 - 9y - 2$$

B)
$$-4x - 9y + 4x$$

C)
$$8x^2 + 18xy + 4x$$

D)
$$8x + 18y + 4$$

184)
$$\frac{2}{5}$$
(20x² + 15x - 10)

A)
$$x^2 - 6x + 4$$

B)
$$x^2 + 6x - 4$$

B)
$$x^2 + 6x - 4$$
 C) $x^2 + 30x - 20$ D) $x^2 + 15x - 10$

Answer: B

185)
$$(-3x + 4y + 4)(3xy)$$

A)
$$-9x^2 + 12y^2 + 12xy$$

C)
$$-3x + 4y + 12xy$$

$$-3x + 4y + 12xy$$

Answer: B

B)
$$-9x^2y + 12xy^2 + 12xy$$

D)
$$-9x^2y - 12xy^2 - 12xy$$

A)
$$-1.71x^2 + 1.539x - 2.565$$

C)
$$-1.71x^2 + 1.539x + 2.3085$$

B)
$$-1.71x^2 - 1.539x - 2.3085$$

Answer: C

187)
$$\frac{y}{5}$$
 (4y - x - 15)

A)
$$\frac{4}{5}$$
y² - x - 15

A)
$$\frac{4}{5}y^2 - x - 15$$
 B) $\frac{4}{5}y^2 - \frac{xy}{5} - 3y$ C) $\frac{4}{5}y^2 - \frac{x}{5} - 3$ D) $\frac{4}{5}y^2 + \frac{xy}{5} + 3y$

C)
$$\frac{4}{5}y^2 - \frac{x}{5} - 3$$

D)
$$\frac{4}{5}y^2 + \frac{xy}{5} + 3y$$

Answer: B

Solve the problem.

188) A living room is 15 feet wide. The carpeted portion of the room is 5x feet long and the adjacent tiled portion of the room is 9y feet long. Use the distributive property to find an expression for the total area of the living room.

D)
$$210(x + y)$$
 square feet

Answer: C

189) The quad at State University is 5x feet wide. Initially, it was 1200 feet long. However, due to the construction of a new science building, the original length was decreased by 3y feet. Use the distributive property to find an expression for the area of the new quad.

Answer: B

190) The price of a desk was 5y. During a sale, the price was reduced by \$150. The store sold 4x desks during the first week of the sale. Write an expression with parentheses to represent the value of the desks sold during the first week. Then use the distributive property to write the expression without parentheses.

A)
$$4x(5y - 150) = 20xy - 600x$$
 dollars

B)
$$5y(4x - 150) = 20xy - 750y$$
 dollars

C)
$$4x(5y - 150) = 20xy - 600 dollars$$

D)
$$4x(5y - 150) = 20xy - 150 dollars$$

- 191) Sara is in charge of painting a mural on the side of a building. The wall is 47 meters long. The wall is 7x meters high up to the window ledge and it is 4y meters from the window ledge to the top. Write an expression with parentheses for the area of the wall. Then use the distributive property to write the expression without parentheses.
 - A) 7x(4y + 47) = 28xy + 47 square meters
 - C) 47(7x + 4y) = 329x + 4y square meters

Answer: B

- B) 47(7x + 4y) = 329x + 188y square meters
- D) 7x(4y + 47) = 28xy + 329x square meters

List the like terms of the expression.

- 192) 9x 6x + 2
 - A) There are no like terms
 - C) $9x_1 6x_1$ and 2 are like terms

Answer: D

- 193) -12a 9b 3b + 3a
 - A) There are no like terms
 - C) -12a and 3a are like terms- 9b and 3b are like terms

Answer: C

- 194) -6y + 3 5 + 5x + y 3
 - A) -6y, 5x, and y are like terms 3, -5, and 3 are like terms
 - C) -6y and y are like terms 3, -5, and -3 are like terms

Answer: C

- 195) $-12pq + 5pq^2 4p^2q 8pq$
 - A) -12pq and -8pq are like terms $5pq^2$ and $-4p^2q$ are like terms
 - C) There are no like terms

Answer: D

- 196) $-12xy + 5xy^2 7x^2y 5xy^2 + xy$ A) $5xy^2$ and $-5xy^2$ are like terms
 - C) -12xy and xy are like terms

- B) 9x and 2 are like terms
- D) 9x and 6x are like terms
- B) -12a and 9b are like terms 3b and 3a are like terms
- D) -12a, 3a, 9b and 3b are like terms
- B) -6y and y are like terms 3, -5, 5x, and - 3 are like terms
- D) -6y and y are like terms
- B) -12pq, $5pq^2$, $-4p^2q$, -8pq are like terms
- D) -12pg and 8pg are like terms
- B) -12xy and xy are like terms $5xy^2$, - $7x^2y$, and - $5xy^2$ are like terms
- D) -12xy and xy are like terms $5xy^2$ and $5xy^2$ are like terms

- 197) $3x^6 + 6x^2 8 + 8x^6 2x^2 + 7x$ A) $3x^{6}$, $6x^{2}$, $8x^{6}$ and $-2x^{2}$ are like terms
 - C) 3x6 and 8x6 are like terms $6x^2$. $-2x^2$ and 7x are like terms

- B) 3x⁶ and 8x⁶ are like terms $6x^2$ and $-2x^2$ are like terms - 8 and 7x are like terms
- D) 3x6 and 8x6 are like terms $6x^2$ and $-2x^2$ are like terms

Answer: D

Combine like terms.

198)
$$6x - 3x + 3$$

A)
$$-3x + 3$$

B)
$$3x + 3$$

C)
$$9x + 3$$

D) 6x

Answer: B

B)
$$11a^2 - 5b^2 + 7$$

D) ab

Answer: A

200)
$$9x^2 + 6x - 4 + 2x + 9 + 8x^2$$

A)
$$x^2 + 11x + 15$$

B)
$$17x^2 + 8x + 5$$

C)
$$17x^4 + 8x^2 + 5$$

D) $30x^{3}$

Answer: B

D)
$$11pq - 3p + 7q + 2$$

Answer: D

Answer: A

203) $9n - 2n^4 + 9n + 9n^4$

A)
$$18n - 2n^4 + 9$$

B)
$$9n + 7n^4 + 9$$

C)
$$9n + 5n^4$$

D) $18n + 7n^4$

Answer: D

Answer: A

204)
$$5.1x - 1.6y - 3.4x + 8y + 2.4x$$

A)
$$4.1x + 6.4y$$

B)
$$4.1x + 9.6y$$

C)
$$4.1x - 1.6y + 8$$

D)
$$10.9x + 6.4y$$

205) $-\frac{8}{9}s - \frac{2}{3}t + \frac{3}{5}s + \frac{3}{5}t$

A)
$$-\frac{13}{11}$$
 s $-\frac{1}{11}$

A)
$$-\frac{13}{45}$$
 s $-\frac{1}{15}$ t

B)
$$-\frac{8}{9}s - \frac{1}{15}t + \frac{3}{5}$$

C)
$$-\frac{1}{9}$$
 s $-\frac{1}{15}$ t

A)
$$-\frac{13}{45}s - \frac{1}{15}t$$
 B) $-\frac{8}{9}s - \frac{1}{15}t + \frac{3}{5}$ C) $-\frac{1}{9}s - \frac{1}{15}t$ D) $-\frac{13}{45}s - \frac{2}{3}t + \frac{3}{5}$

$$206) \ \frac{3}{5} x - \frac{3}{4} y^2 - \frac{3}{4} x + \frac{1}{3} y^2$$

A) —
$$x - \frac{5}{12}y^2$$

B)
$$-\frac{3}{20}x^2 - \frac{5}{12}y^4$$

C)
$$-\frac{3}{20}x - \frac{5}{12}y^2$$

A)
$$- x - \frac{5}{12}y^2$$
 B) $-\frac{3}{20}x^2 - \frac{5}{12}y^4$ C) $-\frac{3}{20}x - \frac{5}{12}y^2$ D) $-\frac{3}{20}x - \frac{3}{4}y^2 + \frac{1}{3}y^2$

Answer: C

207)
$$11ab + 4 + 19ab^2 + 7 + 3ab^2 + 2ab + 20a^2b^2$$

A)
$$20a^2b^2 + 35ab^2 + 11$$

C)
$$42a^2b^2 + 13ab + 11$$

Answer: B

B)
$$20a^2b^2 + 22ab^2 + 13ab + 11$$

D) $11ab + 4 + 19ab^2 + 7 + 3ab^2 + 2ab + 20a^2b^2$

Simplify the expression, and combine like terms.

208)
$$-(9y - 3) + 6(9y + 6)$$

C)
$$45y + 3$$

D) 45y + 33

209)
$$-9(5x + 10y) + 4(4x + 10y)$$

A)
$$-4x - 50y$$

B)
$$-29x + 10y + 10$$

D) -135xy

210)
$$-2(7xy + 9y^2) + 2y(4x + 7y)$$

A)
$$-32xy^3 + 4x + 7y$$

B)
$$xy + 7$$

C)
$$-6xy + 9y^2 + 7y$$

D)
$$-6xy - 4y^2$$

Answer: D

212)
$$2(3x^2 + 9y) - (9x^2 - 4y)$$

A)
$$15x^2 + 13y$$

B)
$$-3x^2 + 14y$$

C)
$$-3x^2 + 22y$$

D)
$$15x^2 + 22y$$

Answer: C

Answer: C

213)
$$6(2a^2 + 9ab) - a(2a - 5b)$$

A)
$$14a^2 + 59ab$$

B)
$$14a^2 + 9ab - 5b$$

D)
$$10a^2 + 49ab$$

214) $11n(m + 2n) + 3(7mn + 6n^2)$

A)
$$32mn + 40n^2$$

Answer: A

Answer: B

A)
$$-5x - 32$$

D)
$$3x + 3$$

Solve the problem by combining like terms.

- 216) To convert from meters to centimeters, we multiply by 100. For example, the number of centimeters in 3 meters is $100 \cdot 3 = 300$. If one piece of string has a length of x 2 meters, and another piece of string has a length of 8x + 5 centimeters, express their total length in centimeters as an algebraic expression.
 - A) 801x + 498 centimeters

B) 108x - 195 centimeters

C) 900x + 300 centimeters

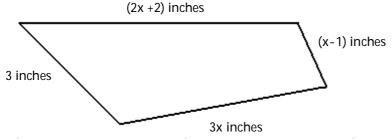
D) 9x + 3 centimeters

Answer: B

- 217) The value of 8 dimes is $10 \cdot 8 = 80$ cents. Likewise, the value of x dimes is 10x cents. If George finds 4x 2 nickels, 5x dimes, and x quarters in his change jar, express the total value of change in cents as an algebraic expression.
 - A) 95x 10 cents
- B) 95x + 10 cents
- C) 70x 10 cents
- D) 95x 2 cents

Answer: A

218) Given the following quadrilateral, express the perimeter, or total distance around the figure, as an algebraic expression containing the variable x.



A) 6x + 4 inches

B) 5x + 6 inches

C) 5x + 4 inches

D) 6x + 6 inches

Answer: A

219) A triangle has sides of length 9a + 11 inches, 13a + 16b inches, and 18b + 20 inches. What is the perimeter of the triangle?

Answer: A

220) Find the perimeter of a triangle whose sides are of lengths 5x, 5x - 5, and x.

D)
$$25x^2 - 25x$$

Answer: C

221) Find the perimeter of a square with sides of length x + 5.

A)
$$4x + 20$$

B)
$$x + 20$$

C)
$$4x + 5$$

D)
$$x^2 + 25$$

Answer: A

- 222) A rectangle has sides of length 8x + 3 meters and 4x 5 meters. What is the perimeter of the rectangle?
 - A) 24x 4 meters
- B) 20x meters
- C) 12x 2 meters
- D) 24x 2 meters

Answer: A

Evaluate.

- 223) 9x + 7 for x = 5
 - A) 38

B) 90

C) 16

D) 52

- 224) 2x + 1 for x = -3
 - A) -5

B) -7

C) 7

D) 5

- Answer: A
- 225) 9x 7 for $x = \frac{1}{4}$
 - A)

B) —

C) $\frac{37}{4}$

D) $-\frac{19}{4}$

- Answer: D
- 226) $-\frac{2}{5}x 7$ for x = 12
 - A) $-\frac{59}{5}$

B) $-\frac{11}{2}$

C) $\frac{11}{5}$

D) -55

- Answer: A
- 227) -3 7x for x = -6A) -4
 - Answer: C

B) -45

C)

D) -16

- 228) -1.6(3.1 x) for x = 3.7
 - A) -0.96 Answer: C

B) 8.66

C) 0.96

D) -8.66

- 229) $4x^2$ for x = -10
 - A) 400 Answer: A

B) 80

C) -80

D) -400

- 230) $-10x^2$ for x = -12
 - A) 1440 Answer: B

B) -1440

C) -240

D) 240

- 231) $(4x)^2 + 9x$ for x = 2A) 73
 - A) 13

Answer: C

- C) 82

D)

- 232) $-7 x^2$ for x = -12
 - A) -151 Answer: A

B) -31

B)

C) 137

D) 17

- 233) $3x^2 + 2x + 4$ for x = -2
 - A) -12 Answer: D

B)

C) -4

D)

- 234) $8x^2 + 9x$ for x = 4
 - A) 68

B) 164

C) 100

D) 92

235)
$$\frac{11}{8}$$
x² - 1 for x = 3

A) $8\frac{1}{8}$

B) $12\frac{1}{4}$

C) $7\frac{1}{4}$

D) $11\frac{3}{8}$

Answer: D

236) $-x^2$ - 6z for x = -2, z = -4

B) -28

C) -20

D) 20

Answer: D

237) -3xy + 8y - 8 for x = 3, y = 1

B) -1

C) 9

D) -9

Answer: D

238) $\frac{14x - 6y}{x + 12}$ for x = 7, y = 4

A) $\frac{14}{19}$

B) $\frac{7}{8}$

C) $\frac{37}{8}$

D) $\frac{74}{19}$

Answer: D

239) $2x^2 - 3xy + 3y^2$ for x = 6 and y = -5A) 248 B) 4

C) 129

D) 237

Answer: D

240) $\frac{y - 2x}{6x + xy}$ for x = -3 and y = 4

A) $-\frac{1}{3}$

B) $\frac{1}{3}$

C) $\frac{1}{15}$

D) $-\frac{2}{15}$

Answer: A

241) a^2 - 8abc - c^2 for a = -5, b = 9, and c = 4

C)

D) -1431

Answer: C

242) $\frac{a^2 - 5ab}{2b}$ for a = -3 and b = -2

A) $-\frac{39}{4}$ B) $-\frac{21}{4}$

C) $\frac{21}{4}$

D) $\frac{7}{2}$

Answer: C

Solve the problem.

243) A poster is in the shape of a parallelogram. The base measures 33 inches, and the altitude measures 25 inches. What is the area of the poster?

A) 825 square feet

B) 116 square feet

C) 1650 square feet

D) 58 square feet

244)	A square component in a television set measures 16 centimeters per side. Next year's design will contain the same square component, but its side will measure only 10 centimeters. By how much will the area of the square be decreased?					
	A) 156 square centimetersC) 36 square centimeters		B) 24 square centimeters D) 100 square centimeters			
	Answer: A					
245)	A window is in the shape of a and the other base measures 56 A) 90,720 square inches C) 1650 square inches			se measures 54 inches,		
	Answer: C		•			
246)	n a home economics class, students cut triangular pieces of fabric for a quilt. Each triangle had a base of 20 centimeters and an altitude of 28 centimeters. What was the area of each triangular piece of fabric? A) 24 square centimeters B) 560 square centimeters C) 280 square centimeters D) 1120 square centimeters Answer: C					
247)	A circular pizza in a contest fo (Use $\pi \approx 3.14$ and round to 2 de A) 43.96 square feet Answer: D	.		e area of the pizza? D) 153.86 square feet		
248)	The expression $\frac{5}{9}$ (F - 32) can be used to convert Fahrenheit to Celsius degrees. On January 29, the high					
	temperature was 77° F. Find th A) 11°C	e corresponding Celsius tem B) 43°C	perature (to the nearest degre C) 25°C	e). D) 81°C		
	Answer: C					
	The temperature recorded on a thermometer was 21°C. Find the corresponding temperature in degrees Fahrenheit. Use the formula $F = \frac{9}{5}C + 32$.					
	A) 43.7°F Answer: D	B) -20.3°F	C) 5.8°F	D) 69.8°F		
250)	Aaron's map shows that he needs to drive 78 more kilometers to reach his destination. Approximately how many more miles must he drive? Use the formula Miles = 0.62k, where k is the number of kilometers. (Round to the nearest tenth of a mile.)					
	A) 43.6 miles Answer: C	B) 59.9 miles	C) 48.4 miles	D) 125.6 miles		
251)	Find the total cost of tiling a re	ctangular floor that is 10 mete	ers long and 3 meters wide if	it costs \$8 07 to tile one		
	square meter. Round to the near A) \$30.00		C) \$209.82	D) \$242.10		
	Answer: D	•	•	•		

252) A semicircular window of radius 20 inches is to be laminated with a coating that costs \$1.10 per square inch to apply. What is the total cost of coating the window, to the nearest cent? (Use $\pi \approx 3.14$).

A) \$345.40

B) \$138.16

C) \$690.80

D) \$4338.22

Answer: C

Simplify by removing grouping symbols and combining like terms.

253) 4x - 2(x - 6y)

A) x + 12y

B) x - 6y

C) x + 12y

D) x - 12y

Answer: C

254) -4(2x - y) - 6(x - 2y)

A) -14x - 8y

B) -14x - 3y

C) -14x + 16y

D) -14x + 2y

Answer: C

255) $3m[6m^2 + 4(7 - m)]$

A) $m^3 - 4m + 28$

C) $m^3 - 3m^2 + 84m$

B) $m^3 + 12m^2 + 84m$

D) $m^3 - 12m^2 + 84m$

Answer: D

256) -4[3(4x - y) - 3(x + 2y)]

A) -36x - 4y

B) -51x + 6y

C) -36x + 36y

D) -36x - 12y

Answer: C

257) 5(a + 2b) - [2 - 3(a - b)]

A) 8a + 7b - 2

B) 2a + 7b - 2

C) 2a + 5b - 2

D) 8a + 13b - 2

Answer: A

258) $3[a - b(4a + 3b) + 3b^2]$

A) 3a - 4ab

C) $3a + 9b - 12ab + 9b^2$

B) $3a - 12ab + 18b^2$

D) 3a - 12ab

Answer: D

259) $3x(4x^2 + 2x + 6) - 5x(6 - x)$

A) $12x^3 + 2x^2 - 12x$

B) 12x³ - 29x + 6

C) $12x^2 + 11x - 12$ D) $12x^3 + 11x^2 - 12x$

Answer: D

260) $3x^2 - 2[2y - 6y(y + 5)]$

A) $3x^2 + 12y^2 + 56y$

C) $3x^2 + 12y^2 - 4y - 10$

B) $3x^2 - 12y^2 - 64y$

D) $3x^2 + 8y + 60$

Answer: A

261) 3a - {3b - 6[a - (b + -4a)]}

A) 5a - 5b

B) -27a + 3b

C) 33a - 9b

D) -15a - 9b

262)
$$4\{8y^2 + 6[3y^2 - (y + z^2)]\}$$

A) $104y^2 - 4y + 4z^2$

B) $50y^2 - 6y - 6z^2$ C) $104y^2 - 24y - 24z^2$ D) $80y^2 - 24y$ Answer: C

Simplify.

263) -1.3 + 0.3 + (-0.4) + 0.2

A) 2.4 Answer: C

B) 1.4

C) -1.2

D) -0.4

264) -12 - (-2)

A) 10

B) -10

C) -14

D) 14

Answer: B

A) $\frac{8}{3}$

B) $-\frac{3}{2}$

C) $-\frac{8}{3}$

D) —

Answer: C

266) -1(3)(3)(5)

A) -10 Answer: D B) 45

C)

D) -45

 $267) - 36 \div (-3)$

A) 12

B) 2

C) $\frac{1}{12}$

D) -12

Answer: A

 $268) -2.4 \div 0.03$

A) -23.7

B) $\frac{1}{80}$

C) -2.37

D) -80

Answer: D

269) (-6)³

A) 216 Answer: C

B) 18

C) -216

D) -18

270) (0.5)³

A) 0.25

B) 1.5

C) 0.125

D) 0.216

Answer: C

 $271)\left(\frac{2}{5}\right)^2$

A) $\frac{25}{4}$

B) $2\frac{2}{5}$

B) 69

C) 129

D) - 3

Answer: B

273)
$$4.1 - 9.1 \div 2.5(6.5 - 7.3)^2$$

A) 1.7704

B) -3.125

C) -1.5875

D) -1.28

Answer: A

274) -2x(9x - 2y - 3)

A) -18x + 4y + 6

B) x - 2y + 6x

C) $-18x^2 - 2y - 3$

D) $-18x^2 + 4xy + 6x$

Answer: D

275)
$$-2xy^2(3x + 2y + 5xy)$$

A)
$$-6xy^2 - 4y^3 - 10xy^3$$

C)
$$-6x^2y - 4xy^2 - 10x^2y^2$$

Answer: D

B)
$$-6x^2y^2 + 2y + 5xy$$

D)
$$-6x^2y^2 - 4xy^3 - 10x^2y^3$$

276) 7ab - $\frac{1}{2}a^2b$ - $\frac{7}{2}ab$ - $\frac{5}{2}a^2b$

A)
$$\frac{7}{2}$$
ab - $\frac{1}{2}$ a²b - $\frac{5}{2}$ ab²

C)
$$-a^2b^2$$

B) $\frac{7}{2}$ ab - 3a²b

D) 7ab -
$$3a^2b - \frac{7}{2}ab^2$$

Answer: B

277) $5.9x^2y - 1.7xy^2 - 3.6x^2y + 9xy^2 + 2.7x^2y$

A)
$$5x^2y + 10.7xy^2$$

B)
$$12.2x^2y + 7.3xy^2$$

C)
$$5x^2y + 7.3xy^2$$

D)
$$5x^2y - 7.3xy^2$$

Answer: C

278) 4(4 - x) - 8(-2 + 4x)

A)
$$-8x + 32$$

B)
$$x + 32$$

C)
$$-36x + 32$$

D)
$$x + 32$$

Answer: C

279) 7(6a + 4) - (6a - 2)

Answer: D

B)
$$-36a + 26$$

C)
$$48a + 2$$

Evaluate for the value of the variable(s) indicated.

280) $x^3 + 4x^2y - 4y - 5$ for x = 3 and y = -4

B)

C) -106

D) -538

Answer: C

281) $3x^2 - 7x + 9$ for x = -4

B) -11

C) 29

D) 85

282)
$$-3a + 6b$$
 for $a = \frac{1}{2}$ and $b = -\frac{1}{4}$

A) - 3

B) - $\frac{9}{8}$

C) - $\frac{5}{24}$

D) 0

Answer: A

Solve.

283) If you are traveling 57 miles per hour on a highway in Canada, how fast are you traveling in kilometers per hour? (Use k = 1.61r, where r = rate in miles per hour and k = rate in kilometers per hour.)

A) 91.8 km/hr

B) 58.6 km/hr

C) 86.1 km/hr

D) 35.4 km/hr

Answer: A

284) A window is in the shape of a trapezoid. The altitude of the window is 54 inches. One base measures 46 inches, and the other base measures 44 inches. What is the area of the window?

A) 109,296 in.²

B) 2430 in.²

C) 4860 in.²

D) 54 in.²

Answer: B

285) Find the total cost of tiling a triangular area having a base length of 3 meters and a height of 9 meters if it costs \$9.71 to tile one square meter. Round to the nearest cent.

A) \$116.52

B) \$262.17

C) \$131.09

D) \$27.00

Answer: C

286) You wish to apply blacktop sealer to your driveway, but do not know how much to buy. If your rectangular driveway measures 30 feet long by 10 feet wide, and a can of blacktop sealer claims to cover 150 square feet, how many cans should you buy?

A) 4 cans

B) 5 cans

C) 3 cans

D) 2 cans

Answer: D

Simplify.

287) $2[a - b(2a + 4b) + 4b^2]$

A) $2a + 8b - 4ab + 8b^2$ B) $2a - 4ab + 16b^2$

C) 2a - 4ab

D) 2a - 2ab

Answer: C

Answer: B

288) 2a - {3b - 6[a - (b - 3a)]}

A) 5a - 5b

B) 26a - 9b

C) -22a + 3b

D) -10a - 9b