### **Developmental Mathematics 1st Edition Blitzer Test Bank**

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

Write a positive or negative	e integer that describes the situation.
------------------------------	---

1) 180 feet above sea level

A) -180

B) 180

Answer: B

2) 37° above zero

A) 37

B) -37

Answer: A

3) \$396 loss

A) -396

B) 396

Answer: A

4) finding 44 cents

A) 44

B) -44

Answer: A

5) The height of the mountain was 11,014 feet.

A) 11,014

B) -11,014

Answer: A

6) The submarine dove to a depth of 135 feet below the surface of the water.

A) 135

B) -135

Answer: B

7) The team gained 64 yards in rushing during the first quarter.

A) 64

B) -64

Answer: A

8) John lost 17 pounds while on his diet.

A) 17

B) -17

Answer: B

9) The stock market gained 59 points on Monday.

A) -59

B) 59

Answer: B

10) During one year, 24 employees started work at Newline Manufacturing Company.

A) 24

B) -24

Answer: A

11) A football team gained 4 yards on one play.

A) -4

B) 4

Answer: B

12) In one state, the highest point is 2692 feet above sea level.

A) -2692

B) 2692

13) One country exported \$71,400,000 more than it imported, giving it a positive trade balance.

B) -71,400,000

Answer: A

14) The sales at Andrea's Formal Wear Shop this week were \$4684 less than the sales last week.

B) -4684

Answer: B

15) Mr. Voss increased his speed by 12 miles per hour.

B) 12

Answer: B

16) On a cloudy day, the water temperature in the swimming pool drops 5 degrees.

B) 5

Answer: A

17) This year corn production increased 6,000 pounds on Steve's farm.

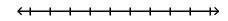
A) 6,000

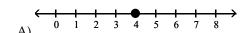
B) -6,000

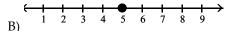
Answer: A

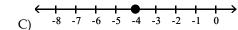
Graph the integer on a number line.

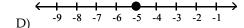
18) 4





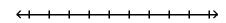


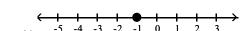


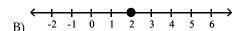


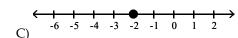
Answer: A

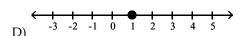
19) -2





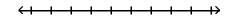


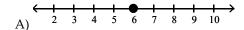


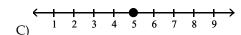


Answer: C

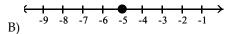


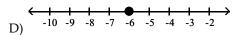




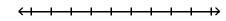


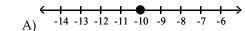
Answer: D

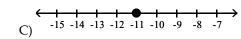




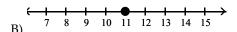
### 21) 10



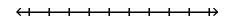


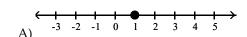


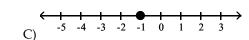
Answer: D



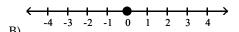
# 22) 0



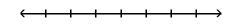




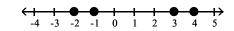
Answer: B



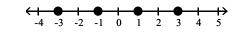
## Graph the integers on the number line.



A)

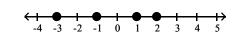


C)

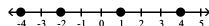


Answer: C

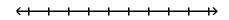
## B)



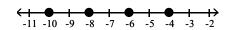
D)



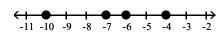
24) -10, -8, -6, -4



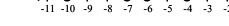
A)



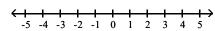
C)



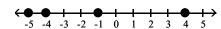
Answer: A



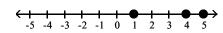
25) 4, 5, -4, 1



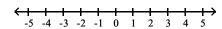
A)



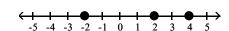
C)



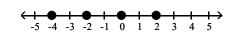
- Answer: B
- 26) 2, 0, -2, 4



A)



C)



- Answer: B
- Compare the integers. Insert < or > to make the statement true.

Answer: A

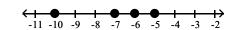


Answer: A

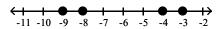


Answer: B

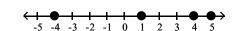
B)



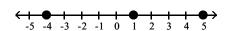
D)



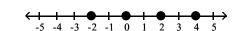
B)



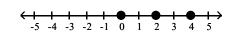
D)



B)



D)



- B) >
- B) <
- B) <

30) 
$$10 \frac{}{A) >} -6$$

B) <

Answer: A

31) 
$$-7$$
  $-5$   $\overline{A) > }$ 

B) <

Answer: B

B) >

Answer: A

B) >

Answer: B

B) >

Answer: B

B) >

Answer: A

Find the absolute value.

36) | 17 |

A) -17

B) 17

C) 34

D) 0

Answer: B

37) | -24 |

A) 48

C) 24

D) -24

Answer: C

38) |1|

A) 0 Answer: D B) 2

B) 0

C) -1

D) 1

A) 41

39) |41|

B) 0

C) -41

D)  $\frac{1}{41}$ 

Answer: A

40) | -69 |

A) -69

B)  $\frac{1}{69}$ 

C) 0

D) 69

Answer: D

Find the opposite of the number.

41) 20

A) -20

Answer: A

B) 0

C) 20

D) 1

42) -12

A) 12

B) does not exist

C) -12

D) 0

Answer: A

43) 7

A) 0 Answer: D B) 7

C) -1

D) -7

44) -2

A) -2

B) -1

C) 0

D) 2

Answer: D

45) 20

A) 1

B) -20

C) 20

D) 0

Answer: B

46) -16

A) 0

B) -16

C) -1

D) 16

Answer: D

47) 0

A) does not exist

Answer: B

B) 0

C) 1

D) -1

Simplify the expression.

48) - (-8)

A) -8

Answer: C

B) -9

C) 8

D) 0

49) - | -11 |

A) -11

Answer: A

B) 1

C) -1

D) 11

50) - -65

A) -65

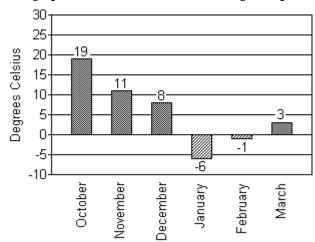
B)  $\frac{1}{65}$ 

C) 0

D) 65

Answer: A

The bar graph below shows the recorded high temperatures in Little City for the indicated months.



- 51) In which month was the recorded temperature closest to 0°C?
  - A) February
- B) October
- C) January
- D) March

Answer: A

- 52) In which month was the recorded temperature the highest?
  - A) March

- B) October
- C) February
- D) January

Answer: B

- 53) In which month was the recorded temperature closest to -5°C?
  - A) March

- B) December
- C) January
- D) February

Answer: C

Fill in the blank. Then write an addition problem with addends and the sum that describes the situation.

- 54) A loss of \$2 followed by a loss of \$7 results in a
  - A) loss of \$9; 2 + 7 = 9

- В
- B) loss of \$9; -2 + (-7) = -9

C) gain of \$9; 2 + 7 = 9

D) gain of \$9; -2 + (-7) = -9

Answer: D

- 55) A loss of \$1 followed by a gain of \$5 results in a
  - A) loss of \$4; 1 + (-5) = -4

B) gain of 6; 1 + 5 = 6

C) loss of 6; -1 + (-5) = -6

D) gain of \$4; -1 + 5 = 4

Answer: D

- 56) A gain of \$4 followed by a loss of \$9 results in a
  - A) loss of \$13; -4 + (-9) = -13

B) gain of \$13; 4 + 9 = 13

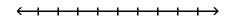
C) gain of \$5; -4 + 9 = 5

D) loss of \$5; 4 + (-9) = -5

Answer: D

Add the numbers using the number line.

57) 1 + (-5)



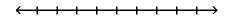
A) 4

B) -4

C) 6

D) -6

58) - 4 + 2



A) 2

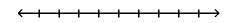
B) -2

C) 6

D) -6

Answer: B

59) - 4 + 0



A) -40

B) 0

C) -4

D) 4

Answer: C

$$60) -6 + (-9)$$

A) -3

B) -15

C) 15

D) 3

Answer: B

$$61) -5 + (4)$$

A) 9

B) -1

C) 1

D) -9

Answer: B

Find the sum without the use of a number line.

62)(-5)+(-6)

A) 11

B) -11

C) 1

D) -1

Answer: B

63)(-56) + (-41)

A) -97 Answer: A B) 15

C) 97

D) -15

64) -15 + (-11)

A) 26

B) 4

C) -4

D) -26

Answer: D

 $65)\ 16 + 12$ 

A) -28 Answer: B B) 28

C) 4

D) -4

66) -11 + (-20)

A) -9

B) -31

C) 31

D) 9

Answer: B

67) -15 + (-15)

A) 30

B) -30

C) 31

D) -31

68) (-7 )+ (-17) A) -10 Answer: B	B) -24	C) 24	D) -25
69) -20 + (-11) A) -32 Answer: D	B) 31	C) 9	D) -31
70) (-64) + (-45) A) -109 Answer: A	B) 109	C) 19	D) -111
71) 72 + 35 A) 109 Answer: B	B) 107	C) 108	D) 106
72) -96 + (-37) A) 134 Answer: B	B) -133	C) -134	D) 133
73) 5 + (-6) A) 1 Answer: C	B) 11	C) -1	D) -11
74) (-3) + 4 A) -1 Answer: D	B) 7	C) -7	D) 1
75) 81 + (-78) A) 3 Answer: A	B) -159	C) -3	D) 159
76) -15 + 25 A) -40 Answer: C	B) 40	C) 10	D) -10
77) 29 + (-94) A) 65 Answer: C	B) 123	C) -65	D) -123
78) (-3) + 5 A) -8 Answer: C	B) 8	C) 2	D) -2
79) -7 + 4 A) 3 Answer: B	B) -3	C) -11	D) 11

80) 7 + (-7)
A) 14
B) 7
C) -7
D) 0
Answer: D

81) -84 + 27
A) 57
B) 111
C) -57
D) -111
Answer: C

A) 35 B) 13 C) 43 D) 5
Answer: D

83) 1 + 16 + (-5) A) 22 B) -10 C) 12 D) -20 Answer: C

84) (-19) + 8 + (-17) A) 44 B) 6 C) 10 D) -28 Answer: D

85) (-18)+ (-6) + (-7) + (-7) A) -2 B) -38 C) 12 D) 10 Answer: B

86) 6 + (-13) + 18 + (-3) A) 40 B) -28 C) 8 D) -22 Answer: C

87) (-8) + (-50) + 77 + (-35) A) 54 B) 0 C) -170 D) -16 Answer: D

#### Solve the problem.

88) The temperature at 4 p.m. on January 22 was –10° Fahrenheit. By 9 p.m. the temperature had risen 24 degrees. Find the temperature at 9 p.m.

A) 14° B) -14° C) -34° D) 34° Answer: A

89) Lauren scored 17 points in her basketball game on Monday, 3 points on Wednesday, 15 points on Friday, and 7 points on Saturday. Find her total points scored for the week.

A) 43 points B) 42 points C) 41 points D) 35 points Answer: B

90) The following shows a summary of Marco's bank account activity over the past month. Add the values in the Amount column to find his current balance.					
Activity Amount Previous balance \$470 Car payment -\$120 Paycheck deposit \$889 Rent payment -\$495					
A) \$744 Answer: A	B) \$1734	C) \$1974	D) \$984		
91) The following table shows Her round 4?	nry's score after four rounds o	of a card game. What is Henry	s's score at the end of		
Round 1 Round 2 Round -1 1 -8	3 Round 4				
A) -18 Answer: B	B) 2	C) -2	D) 18		
	vous got coopies of 1 2 0 am	od 6 Milatia vous final agosa?			
92) In four rounds of a card game, A) -4	B) -18	C) 18	D) 4		
Answer: A					
93) The temperature at the South I many degrees did the tempera	-	e day. The following day, it re	egistered -44°F. By how		
A) –42°F	B) -46°F	C) 46°F	D) 42°F		
Answer: C					
94) A bike road race starts at an elevation of 950 ft. and passes through 5 stages where the elevation increases (decreases) by -101 ft., -514 ft., 283 ft., 211 ft., and 440 ft. At what elevation does the race end?  A) 2499 ft.  B) 1269 ft.  C) 2216 ft.  D) -2499 ft.					
Answer: B					
95) A corporation's bank account has \$6531 in it when the treasurer writes checks for \$1765, \$1708, and \$582. Then, deposits of \$1360 and \$4184 are made. What is the new balance?					
A) \$8602 Answer: D	B) -\$5042	C) \$5042	D) \$8020		
96) Jack's checking account was overdrawn by \$86. He deposited \$53 into his account. What is his new balance?  A) \$139  B) -\$33  C) \$33  D) -\$139					
Answer: B	,	<b>,</b>			
97) The temperature was 73°F in the What was the temperature in the state of the st		5°F in the afternoon and anoth	ner 6°F in the evening.		
A) -63°F	B) 63°F	C) -51°F	D) 51°F		
Answer: D					

also wrote a \$87 check t	e	eposit. The bank charged her eck to pay her phone bill. Wh	-
account? A) \$638	B) \$464	C) \$442	D) \$788
Answer: C	<i>D)</i> ψ <del>1</del> 01	C) \$112	D) \$700
paycheck, and then wro	te a \$456 check for his rent. V	\$198 check for his car payme What is the current balance in	his account?
A) \$1549	B) \$1033	C) \$1945	D) \$637
Answer: D			
_	ntain hike at 53 feet above sea in feet? Represent the answe B) 106 ft	n level. She hikes 54 feet towa r as an integer. C) 109 ft	rd the peak of the mountain.  D) 107 ft
Answer: D	<i>b)</i> 100 It	C) 107 It	D) 107 It
Aliswel. D			
degrees. What is the ten	nperature at 11 p.m? Represe		•
A) 30°F	B) -30°F	C) -2°F	D) 2°F
Answer: D			
<u>-</u>	-	and Benny started at an elev Represent the answer as an in	
A) -15 ft	B) -49 ft	C) 15 ft	D) 49 ft
Answer: A			
Write as an equivalent addition s	tatement. (Do not evaluate.)		
A) 1 + 21	B) 21 + (-1)	C) 21 + 1	D) 1 + (-21)
Answer: D			
104) -4 - 14			
A) -4 + 14	B) -4 + (-14)	C) 14 + (-4)	D) -18
Answer: B	, , ,	, , ,	,
105) 6 - (-19)			
A) -19 + (-6)	B) 6 + (-19)	C) 19 + (-6)	D) 6 + 19
Answer: D			
106) -21 - (-14)			
A) 21 + 14	B) -21 + 14	C) -21 + (-14)	D) 21 + (-14)
Answer: B			
107) 5 - (-27)			
A) 5 + 27	B) 5 + (-27)	C) -5 + (-27)	D) -5 + 27

Answer: A

#### Subtract.

108) -8 - (-8) A) 0

B) 16

C) -8

D) -16

- Answer: A
- 109) 1 20 A) -21

B) -19

C) 19

D) 21

- Answer: B
- 110) -11 7 A) 4

B) -18

C) 18

D) -4

- 111) 19 (-14)
  - A) -5

Answer: B

B) -33

C) 5

D) 33

- Answer: D
- 112) -8 (-10) A) -18

B) -2

C) - 8

D) 2

- Answer: D
- 113) -9 (-8) A) 17

B) -17

C) 1

D) -1

- Answer: D
- 114) -56 (-71) A) 127

B) 15

C) -127

D) -15

- 115) 111 112 A) 223 Answer: D

Answer: B

B) 1

C) -223

D) -1

- 116) 6 (-6)
  - A) -12
  - Answer: B

B) 12

C) 6

D) 0

- 117) 0 30
  - A) -30Answer: A

- B) not possible
- C) 30

D) 0

- 118) -26 0
  - A) 0

B) -26

- C) not possible
- D) 26

- Answer: B
- Simplify the series of additions and subtractions.
  - 119) 16 + (-2) 6
    - A) -8

B) 20

C) 24

D) 8

Answer: D



A) 9

B) -5

C) 3

D) -3

Answer: B

121) 9 + 7 - (-10)

A) -8

B) 26

C) 6

D) -26

Answer: B

122) 17 + (-2) - 11 + (-20)

A) 10

B) 6

C) -16

D) 24

Answer: C

123) 11 + (-20) - (-8) - 14

A) -3

B) 13

C) -15

D) 37

Answer: C

124) 9 + (-20) - 17 - (-13) + (-9)

A) -16

B) 42

C) -24

D) -50

Answer: C

125) 27 + (-12) – 19 – (-42) + (-54)

A) 8

B) -100

C) -16

D) 92

Answer: C

## Translate the phrase into a subtraction problem. Then find the difference.

126) 26 subtracted from -9.

A) -35

B) 17

C) -17

D) 35

Answer: A

127) the difference of -30 and -15.

A) -45

B) -15

C) 15

D) 45

Answer: B

#### Solve the problem.

128) What is the difference between a daytime temperature of 19 degrees Fahrenheit and a nighttime temperature of –7 degrees Fahrenheit? Represent the answer as an integer.

A) 26°F

B) 12°F

C) -12°F

D) -26°F

Answer: A

129) The highest point in a country is 3211 feet above sea level. The lowest point in that same country is 79 feet below sea level. What is the difference in elevation between the highest and lowest points? Represent the answer as an integer.

A) 3132 ft

B) -3132 ft

C) 3290 ft

D) -3290 ft

Answer: C

130) Leah has \$289 in her checking account. She later deposits a check for \$70 but has to withdraw \$28 for groceries the next day. She then writes a \$59 check for car repairs. How much money is left in Leah's checking account after the car repair check is cashed?

A) \$132

B) -\$132

C) \$272

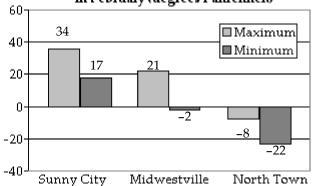
D) -\$272

Answer: C

131) Stuart has a balance of -\$30 in his bank account. To avoid further charges, he must have a balance of \$21. What is the minimum he can deposit to avoid further charges?				
A) -\$9	B) \$51	C) -\$51	D) \$9	
Answer: B				
132) Nikki is fishing from a bank 14 surface. How long must Nikki			ed at 44 feet below the	
A) –30 ft.	B) 30 ft.	C) -14 ft.	D) 58 ft.	
Answer: D				
133) Wayne has \$16 in his bank acc balance?	ount. A check written agains	t his account for \$32 arrives a	t the bank. What is his	
A) -\$48	B) \$48	C) -\$16	D) \$16	
Answer: C				
134) The revenue for a manufacturing company in 2004 was \$61,720 and their total costs were \$65,220. What was the net?				
A) -\$3500	B) \$126,940	C) \$3500	D) -\$126,940	
Answer: A				
135) The temperature one day was reported to be 37°F. The next day, it was reported to be -4°F. By how many degrees did the temperature drop?				
A) -41°F	B) 41°F	C) -33°F	D) 33°F	
Answer: B				
136) In a certain location, the highest temperature recorded was 103°F. The lowest temperature recorded there was 135 degrees lower than the highest. What was the lowest temperature recorded there?				
A) -138°F	B) -32°F	C) 32°F	D) 0°F	
Answer: B				
137) The list price of a car is \$19,789. The manufacturer offers a rebate of \$681. What is the final price of the car?				
A) \$20,370	B) \$19,008	C) \$19,108	D) \$20,470	
Answer: C				

138)

Maximum and Minimum Normal Temperatures in February (degrees Fahrenheit)



Calculate the difference between the maximum and minimum temperature in February for Sunny City.

A) 23°F

B) 14°F

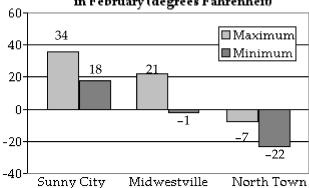
C) 17°F

D) -17°F

Answer: C

139)

Maximum and Minimum Normal Temperatures in February (degrees Fahrenheit)



Calculate the difference between the maximum and minimum temperature in February for Midwestville.

A) -22°F

B) 15°F

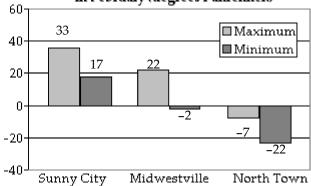
C) 22°F

D) 16°F

Answer: C

140)

Maximum and Minimum Normal Temperatures in February (degrees Fahrenheit)



Calculate the difference between the maximum and minimum temperature in February for North Town.

Answer: B

Perform the indicated multiplication.

141) 7(9)

Answer: B

142) -6(-10)

A) 
$$-54$$

$$C) -60$$

Answer: B

143) - 7(5)

A) 25

B) 35

C) -28

D) -35

Answer: D

144) -15(-11)

A) 180

B) 176

C) 165

D) -180

Answer: C

145) -20(16)

A) 300

B) -336

C) -300

D) -320

Answer: D

146) 0(-10)

A) 10

B) 0

C) -10

D) -20

Answer: B

147) -16(16)

A) 256

B) 272

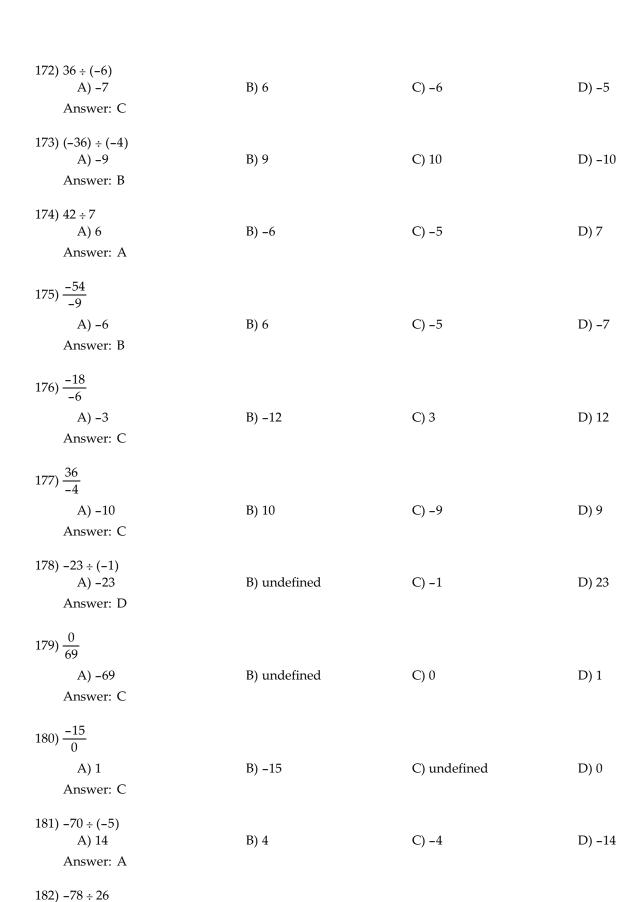
C) -272

D) -256

Answer: D

148) 9(-9) A) 81 Answer: B	B) -81	C) -90	D) 90
149) -4(-4) A) 16 Answer: A	B) 20	C) -16	D) -20
150) -14(-7) A) 98 Answer: A	B) -112	C) 105	D) 112
151) (-6)(-7) A) 13 Answer: B	B) 42	C) -42	D) -13
152) (2)(-3) A) -1 Answer: C	B) 6	C) -6	D) 1
153) (0)(-30) A) 0 Answer: A	B) 1	C) 30	D) -30
154) 5(-7)(-7) A) -70 Answer: B	B) 245	C) -245	D) 255
155) -4(-4)(6) A) -96 Answer: C	B) 86	C) 96	D) 196
156) (-7)(-3)(3) A) 63 Answer: A	B) 53	C) -63	D) 163
157) (3)(-1)(5)(-9) A) -135 Answer: B	В) 135	C) 7	D) 48
158) (-4)(-4)(0)(3) A) -48 Answer: B	B) 0	C) 48	D) 38
159) -5(-6)(3) A) 190 Answer: B	B) 90	C) -90	D) 80

160) 4(-6)(-6) A) -144 Answer: C	B) 154	C) 144	D) -48	
161) -3(-3)(5) A) 145 Answer: B	B) 45	C) -45	D) 35	
162) -3(-4)(-6) A) 72 Answer: D	B) 28	C) -82	D) -72	
163) -5(-5)(-5) A) -115 Answer: C	B) -135	C) -125	D) 125	
164) -25(0)(-5)(9) A) 25 Answer: B	B) 0	C) 1	D) -25	
165) 2(-1)(5)(-7) A) 37 Answer: C	B) 4	C) 70	D) -70	
Evaluate the exponential expression 166) -5 <sup>3</sup> A) 125 Answer: B	on. B) -125	C) 625	D) -3125	
167) (-5) <sup>5</sup> A) 625 Answer: C	B) 3125	C) -3125	D) -15,625	
168) (-4) <sup>2</sup> A) -16 Answer: C	B) -4	C) 16	D) 4	
169) -3 <sup>4</sup> A) -243 Answer: D	B) 81	C) 243	D) -81	
170) -1 <sup>20</sup> A) -20 Answer: B	B) -1	C) 20	D) 1	
Perform the indicated division or state that the expression is undefined.				
171) 36 ÷ (-6) A) -7	B) -6	C) -5	D) 6	



B) 3

A) -3

Answer: A

C) -13

D) 13

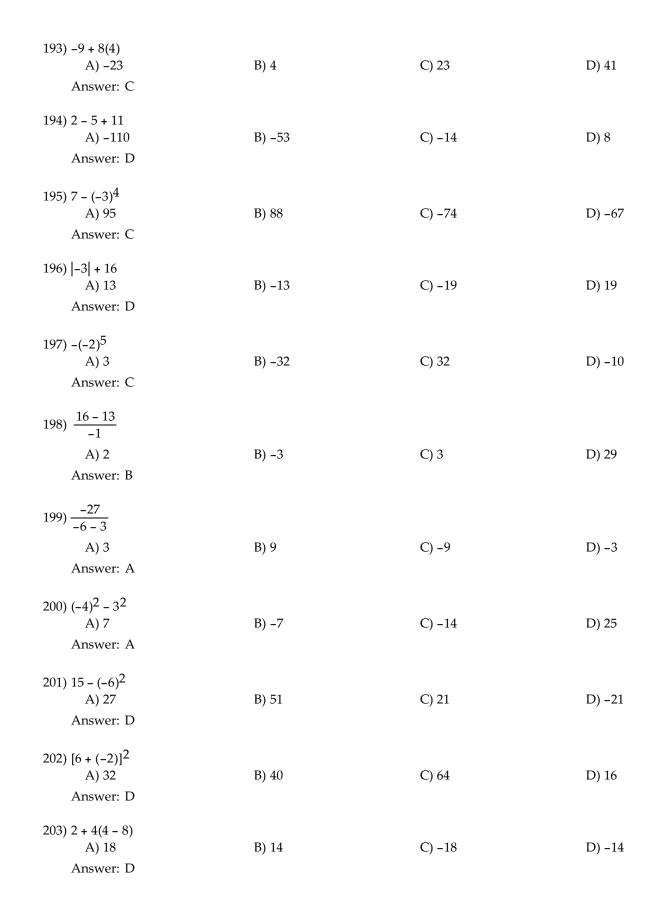
18	$3)\frac{-372}{-93}$				
	A) -4	B) 4	C) -6	D) 6	
	Answer: B				
	•••				
18	4) $\frac{220}{-20}$				
	A) -11	B) 11	C) -21	D) 21	
	Answer: A				
	te the sentence into a multiplica 5) Find the product of -2 and -1		nd solve.		
10	A) -34	B) 34	C) -32	D) 32	
	Answer: B	, -	-, -	, -	
18	6) What is -11 times 19?				
	A) 209	B) 198	C) -209	D) -198	
	Answer: C				
18	7) What is the quotient of -81 an	ıd 9?			
	A) -8	B) 9	C) -10	D) -9	
	Answer: D				
10	0) D' ' 1 141 F				
18	8) Divide –14 by –7. A) 2	B) -3	C) 3	D) -2	
	Answer: A	<i>D)</i> –3	C) 3	D) -2	
	THISWCI. TI				
	ne problem.				
18	9) The temperature in a town dr			ntinues, what is the	
	total change in temperature o A) 14°F	ver the next 7 hours.? Represe B) 2°F	ent the answer as an integer.  C) –14°F	D) -3°F	
	Answer: C	D) 2 T	C) =14 1	D) -3 T	
	Allswer. C				
19	0) A football team lost 10 yards	on each of two consecutive pla	ays. What was the team's total	l change in yardage on	
	these two plays? Represent the answer as an integer.				
	A) 8 yd	B) -8 yd	C) -22 yd	D) -20 yd	
	Answer: D				
19	Over the last 5 quarters, a maj what is the change in the corp	oration's value during each q			
	A) -\$139 thousand per qua		B) -\$140 thousand per quan		
	C) -\$135 thousand per qua	rter	D) -\$137 thousand per quan	rter	
	Answer: D				

Simplify the expression using the order of operations. 192)  $4\cdot 3^3$ A) 24 B) 108

Answer: B

C) 36

D) 1728



A) 21

B) -3

C) 3

D) 6

Answer: B

205)  $(-6)^2 - 0 \cdot 4$ A) -6

B) 6

C) 36

D) -36

Answer: C

206) 
$$(6 - 9^2)^2$$

A) -5625

B) 144

C) 5625

D) -24

Answer: C

207) 
$$(-5 \div 5) - (7 \div 7)$$

A) 0

B) 1

C) -1

D) -2

Answer: D

208) 2[-5 + 4(-6 + 8)]

A) -2

B) -4

C) 6

D) -8

Answer: C

209) 
$$2 - |3 - 9|^2$$

A) -34

B) -32

C) -36

D) 32

Answer: A

210)  $12^2 + 10 \cdot 6 - (11 + 2 \cdot 4)$ 

A) 201

B) 905

C) 185

D) 152

Answer: C

 $211) \frac{3^2 + 9(-4)}{|5 + (-14)|}$ 

A) 4

Answer: D

B) 3

C) -19

D) -3

Evaluate the expression for the given value or values of the variables.

212) 
$$17 - z^2$$
;  $z = -4$ 

A) 33

B) 1

C) 136

D) 25

Answer: B

213)  $-5x^2 + 8x + 2$ ; x = -2

A) -44 Answer: C B) -38

C) -34

D) -4

214) 8x - 4(x + 2); x = -5

A) -31

B) -28

C) -42

D) -23

$$215) \frac{6x - 6x^2}{x^2 - 10}; x = -4$$

A) 20

B) -80

C) - 20

D) 4

Answer: C

216)  $2x^3 - 5x^2 + 12$ ; x = -2

A) 6

B) -36

C) -34

D) -24

Answer: D

217)  $\frac{4p}{q}$ ; p = 56, q = 7

A) 28

B) 192

C) 196

D) 32

Answer: D

218)  $9x^2 + 7y$ ; x = 6, y = 5

A) 2951

B) 267

C) 1935

D) 359

Answer: D

219) 7x - 8y; x = 2, y = -6

A) 64

B) 42

C) 62

D) 57

Answer: C

220) -|7m + 5n|; m = -4, n = 6

A) 1

B) 3

C) -6

D) -2

Answer: D

221)  $\frac{7x+7}{22-2y}$ ; x = 9, y = 10

A) 35

B) 32

C) 75

D) 70

Answer: A

222)  $b^2 - 4ac$ ; a = 2, b = -6, c = 6

A) -18

B) -22

C) -12

D) -8

Answer: C

223)  $|7a^2 - b^2| + c$ ; a = -5, b = 0, c = 15A) 50 B) -190

Answer: C

C) 190

D) 160

Determine if the given integer value for the variable is a solution to the equation.

224) x + 1 = 14; 13

A) solution

B) not a solution

Answer: A

225) 7n = 56 - n; 7

A) not a solution

B) solution

226) 
$$2(t-5) = 16; 11$$

A) not a solution

B) solution

Answer: A

#### 227) 6k + 4 = 3k + 31; 9

A) solution

B) not a solution

Answer: A

### 228) 5x + 7 = 3x + 19; 6

A) solution

B) not a solution

Answer: A

### 229) 6x + 3 = 4x + 18; 8

A) solution

B) not a solution

Answer: B

230) 
$$-2(x + 9) + 4x = 4(x - 9) + 6$$
; 6

A) solution

B) not a solution

Answer: A

231) 
$$-2(x + 7) + 4x = 3(x - 7) + 8$$
; 3

A) not a solution

B) solution

Answer: A

#### Write the English phrase as an algebraic expression. Let the variable x represent the number.

232) six times the sum of some number and eleven

A) 
$$6(x - 11)$$

B) 
$$6x + 11$$

C) 
$$6(x + 11)$$

D) 
$$6x - 11$$

Answer: C

233) six subtracted from the quotient of ten and some number

A) 
$$\frac{10}{x}$$
 - 6

B) 
$$6 - \frac{x}{10}$$

C) 
$$\frac{x}{10}$$
 - 6

D) 6 - 
$$\frac{10}{x}$$

Answer: A

234) negative four multiplied by the difference of some number and eleven

A) 
$$-4(11 - x)$$

B) 
$$-4x - 11$$

C) 
$$-4(x - 11)$$

D) 
$$-4(n \div 11)$$

Answer: C

235) Twice a number, increased by 79

A) 
$$2x + 79$$

B) 
$$x + 79$$

C) 
$$2x - 79$$

D) 
$$2(x + 79)$$

Answer: A

236) Twice a number, decreased by 54

A) 
$$2x + 54$$

B) 
$$2(x - 54)$$

C) 
$$2x - 54$$

D) 
$$x - 54$$

Answer: C

237) 8 less than 4 times a number

A) 
$$8 - 4x$$

B) 
$$4x - 8$$

C) 
$$8x - 4$$

D) 
$$4 - 8x$$

- 238) the product of four and eight more than a number
  - A)  $4 + 8 \cdot x$
- B) 4(x + 8)
- C) (4 + 8)x
- D)  $4 \cdot 8 + x$

Answer: B

- 239) the quotient of 39 and the product of a number and -4
  - A)  $\frac{-4x}{39}$

- B)  $\frac{39}{x}$  4
- C) -156x

D)  $\frac{39}{-4x}$ 

Answer: D

- 240) the product of 9 and a number, added to 16
  - A) 9 + 16x

- B) 16 + 9x
- C) 144x

D) 144 + x

Answer: B

- 241) the product of -18 and the sum of a number and 29
  - A) -522x

- B) -18(x + 29)
- C) -18 + 29x
- D) -18x + 29

Answer: B

- 242) Nine times the sum of a number and -26
  - A) 9x (-26)
- B) 9(x + (-26))
- C) 9 + x + (-26)
- D) 9x + (-26)

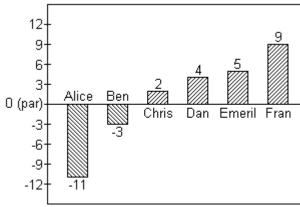
Answer: B

- 243) the quotient of 37 times a number and -2
  - A)  $\frac{37x}{-2}$

- B) 37x 2
- C) 37x + 2
- D)  $\frac{1}{-74}$

Answer: A

Scores in golf can be 0 (also called par), a positive integer (also called above par) or a negative integer (also called below par). Below are the scores of some members of a college golf team in a recent tournament.



- 244) Find the average of the scores for Alice, Chris, Dan and Emeril. Represent the answer as an integer.
  - A) 6

B) 0

C) -6

D) -3

Answer: B

- 245) Find the average of the scores of the members shown. Represent the answer as an integer.
  - A) 0

B) -1

C) 2

D) 1

Answer: D

Solve the equation and check your proposed solution.

246) a – 
$$5 = 4$$

Answer: C

247) 
$$z + 3 = 4$$

Answer: B

248) 
$$9 = a + 7$$

249) 8 = m - 19

Answer: D

250) 
$$-8 + x = 15$$

Answer: A

$$C) -4$$

Answer: B

252) 
$$-15 = n - 7$$

A) 
$$-22$$

253) f + 16 = -8A) 24

Answer: C

$$C) -24$$

254) x + 2 = 3

A) 
$$-1$$

C) 
$$\frac{2}{3}$$

Answer: B

255) 
$$-29 + n = 14$$

Answer: C

256) a - 6 = -12

Answer: B

257) 22 = f - 9

258) -1 = 7 + aA) 6

B) -6

C) - 8

D) 8

Answer: C

259) 3x = 30A) 90

B) 10

C) 27

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

Answer: B

260) 40 = 4xA)  $\frac{1}{10}$ 

B) 10

C) 36

D) 160

Answer: B

- 261)  $\frac{n}{4} = 12$ 
  - A) 48

B) 16

C) 15

D) 3

Answer: A

- 262) -x = 5
  - A) 5

B) -5

C)  $\frac{1}{5}$ 

D) 6

Answer: B

- 263)  $\frac{n}{3} = -7$ 
  - A) -10
  - Answer: D

B) 10

C) 21

D) -21

- 264) -5a = 25
  - A) 1
  - Answer: C

B) -30

C) -5

D) 30

- $265) \frac{x}{-6} = 20$ 

  - A) -26 Answer: D

B) -114

C) -100

D) -120

- 266) -49 = 7k
  - A) -56
  - Answer: D

B) 56

C) 1

D) -7

- 267) -3x = -12
  - A) 4
  - Answer: A

B) 9

C) 2

D) -9

268) 
$$\frac{n}{4} = 2$$

A) 5

B) 8

C) 6

D) 0

Answer: B

269) 2b = -24

A) 1

B) -26

C) -12

D) 26

Answer: C

270) 72 = -4z

A) 1 Answer: C B) -76

C) -18

D) 76

271) -112 = -8n

A) 14

B) -104

C) 2

D) 104

Answer: A

272) -7s = -98

A) 91

B) -91

C) 14

D) 2

Answer: C

273)  $\frac{p}{-3} = -5$ 

A) 15

B) 8

C) -15

D) -8

Answer: A

### Translate the sentence into an equation. Use x to represent the unknown number.

274) 32 less than a number is 15.

A) 
$$x - 32 = 15$$

B) 
$$15 - x = 32$$

C) 
$$32 - x = 15$$

D) 
$$\frac{x}{32} = 15$$

Answer: A

275) The quotient of a number and 4 results in 10.

A) 
$$\frac{x}{4} = 10$$

B) 
$$4x = 10$$

C) 
$$4 - x = 10$$

D) 
$$\frac{4}{x} = 10$$

Answer: A

276) A number increased by 15 equals 26.

A) 
$$26x = 15$$

B) 
$$15x = 26$$

C) 
$$x + 15 = 26$$

D) 
$$x + 26 = 15$$

Answer: C

277) The product of 11 and a number yields 55.

A) 
$$x + 11 = 55$$

B) 
$$\frac{x}{11} = 55$$

C) 
$$55x = 11$$

D) 
$$11x = 55$$

Answer: D

Use the given information to write an equation. Let x represent the number described in the exercise. Then solve the equation and find the number.

278) seven more than a number is equal to twelve.

A) 
$$7 + x = 12$$
,  $x = -5$ 

B) 
$$x = 12 + 7$$
,  $x = 19$ 

C) 
$$7 - x = 12$$
,  $x = -5$ 

D) 
$$x + 7 = 12$$
,  $x = 5$ 

Answer: D

279) three less than a number is fifteen.

A) 
$$x = 15 - 3$$
,  $x = 12$ 

B) 
$$x - 15 = 3$$
,  $x = 12$ 

C) 
$$3 - x = 15$$
,  $x = -12$ 

D) 
$$x - 3 = 15$$
,  $x = 18$ 

Answer: D

280) A number increased by six is negative eleven.

A) 
$$6 + x = -11$$
,  $x = 17$ 

C) 
$$x - 11 = 6$$
,  $x = 17$ 

B) 
$$x + 6 = -11$$
,  $x = -17$ 

D) 
$$6 + x = -11$$
,  $x = -5$ 

Answer: B

281) The product of negative three and a number is twenty-four.

A) 
$$-3x = 24$$
,  $x = -8$ 

B) 
$$-3 + x = 24$$
,  $x = 27$ 

C) 
$$-3x = 24$$
,  $x = 8$ 

D) 
$$-8x = 3$$
,  $x = 8$ 

Answer: A

#### Perform the indicated operations.

$$C) -3$$

Answer: D

$$283)\ 25 - (-13) + 14 + (-8)$$

$$C) - 16$$

Answer: A

#### 284) 2(-2)

A) 
$$-104$$

$$C) -40$$

Answer: B

#### 285) 10(-1)(3)(-2)

Answer: C

$$286) -36 \div 4$$

$$C) - 8$$

Answer: B

$$C) -6$$

288) -9(9 - 44) ÷ (-63)

$$C) -7$$

Answer: A

289) 
$$(15 - 10)^2 + (1 + 3)^2$$

A) 135

B) 41

C) 81

D) 35

Answer: B

$$290) \; \frac{52(17-14)-24}{3^2-3}$$

A) 44

B) 26

C) 22

D) 27

Answer: C

## Provide an appropriate response.

291) Insert either < or > in the blank to make a true statement: -41 -80.

A) >

B) <

Answer: A

292) What is the difference in elevation between a plane flying 15,300 feet above sea level and a submarine traveling 650 feet below sea level?

A) -15,950

B) 14,650

C) -14,650

D) 15,950 feet

Answer: D

## Simplify the expression.

293) |-15|

A) -15

B) 15

C) 30

D) 0

Answer: B

294) - | - 2 |

A) 4

B) 2

C) -2

D) 0

Answer: C

295) -(-3)

A) -3

B) 6

C) 3

D) 0

Answer: C

#### Provide an appropriate response.

296) Evaluate 9x - 4(x + 7) for x = -8.

A) -71

B) -63

C) -82

D) -68

Answer: D

297) Is -7 a solution of 3(x + 4) - 12 = 3x?

A) solution

B) not a solution

Answer: A

## Solve the equation and check your proposed solution.

298) x - 12 = 18

A)  $\{6\}$ 

B) {-6}

C)  $\{-30\}$ 

D) {30}

Answer: D

299) -18 = -3y

A) {-15}

B) {15}

 $C) \{6\}$ 

D) {2}

Answer: C

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300) -16 = y + 6A)  $\{22\}$ 

B) {10}

C) {-10}

D) {-22}

Answer: D

301)  $\frac{w}{-5} = 13$ 

A) -65

B) 18

C) -18

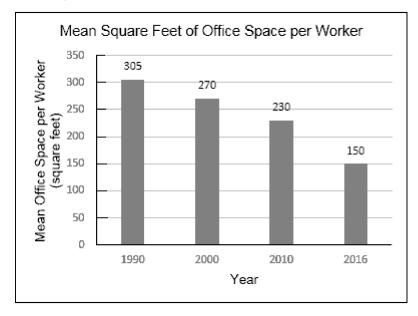
D) 65

Answer: A

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

### Provide an appropriate response.

302) The bar graph shows the mean area of office space, in square feet, per worker at a certain company for four selected years.



Office area per worker, A, in square feet, can be modeled by A = -5x + 320, where x is the number of years after 1990.

- a) Use the formula to find the office area per worker in 2010.
- b) Does the area per worker obtained in part (a) underestimate or overestimate the area displayed by the graph? By how much?

Answer: a) 220 square feet; b) underestimates by 20 square feet