

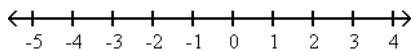
Chapter 1 TECM 119 Practice Test

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

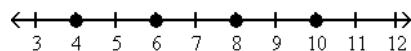
Locate each number on a number line.

1) $-4, -2, 0, 2$

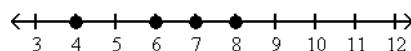
1) _____



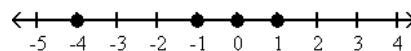
A)



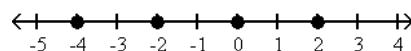
C)



B)



D)



Use $<$, $>$, or $=$ to make a true sentence.

2) $|-8| \quad |2|$

A) =

B) <

C) >

2) _____

Find the absolute value.

3) $|-9.48|$

A) -9.48

B) ± 9.48

C) 0

D) 9.48

3) _____

Add. Do not use a number line except as a check.

4) $2 + (-7)$

A) 9

B) -9

C) 5

D) -5

4) _____

5) $-8 + (-69)$

A) -77

B) -61

C) 77

D) 61

5) _____

Subtract.

6) $-4 - (-4)$

A) -4

B) 0

C) 8

D) -8

6) _____

7) $112 - 113$

A) -225

B) 1

C) -1

D) 225

7) _____

Perform the indicated operation.

8) $20 + 6 + (-25)$

A) 39

B) 51

C) 1

D) -11

8) _____

9) $4 + (-11) - (-5) - 4 + (-10)$

A) -18

B) -8

C) 24

D) -16

9) _____

Solve the problem.

- 10) The stock market gained 60 points on Tuesday and lost 16 points on Wednesday. It had closed on Monday at 2779 points. Where did the market close on Wednesday?

A) 2823 points B) 2735 points C) 2703 points D) 2855 points

10) _____

- 11) A bike road race starts at an elevation of 500 feet and passes through 5 stages where the elevation changes by -139 feet, -63 feet, 197 feet, 27 feet, and -327 feet. At what elevation does the race end?

A) 195 feet B) -1253 feet C) 1253 feet D) 402 feet

11) _____

Find the product.

- 12) $(33)(-24)$

A) -792

B) -892

C) 792

D) -825

12) _____

- 13) $(5)(-4)(-4)$

A) 80

B) 90

C) -40

D) -80

13) _____

- 14) $(-3)(-3)(-3)$

A) -37

B) -27

C) 27

D) -17

14) _____

Perform the indicated operation.

15) $\frac{-76}{4}$

A) 19

B) -29

C) -19

D) $-\frac{1}{19}$

15) _____

16) $\frac{-279}{-31}$

A) $\frac{1}{9}$

B) -9

C) 9

D) -1

16) _____

17) $\frac{-50}{0}$

A) 50

B) 1

C) Undefined

D) 0

17) _____

18) $\frac{5(-8)}{-6(-4)}$

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

B) $\frac{3}{10}$

C) $-\frac{5}{3}$

D) $\frac{5}{3}$

18) _____

Provide an appropriate response.

- 19) If a negative integer is subtracted from a positive integer, what can you say about the result?

19) _____

- A) The result will be a negative integer.
- B) The result could be either a positive or negative integer.
- C) The result will be a positive integer.
- D) The result will be positive and may or may not be an integer.

Solve the problem.

- 20) During a drought, the water level in a river dropped 3 inches each day for 8 straight days. What was the change in the water level of the river during this period? 20) _____
- A) -11 inches B) 11 inches C) -24 inches D) 24 inches

Rewrite using the appropriate base and exponent. (Don't evaluate.)

- 21) $20 \times 20 \times 20 \times 20$ 21) _____
- A) 4^{20} B) $4 \cdot 20$ C) 20^4 D) 20

Write the expression as products.

- 22) -5^3 22) _____
- A) $-5 \times -5 \times -5$ B) -125 C) -15 D) $-(5 \times 5 \times 5)$

Evaluate the expression.

- 23) -9^2 23) _____
- A) -729 B) 729 C) -81 D) 81

- 24) $-\sqrt{1.44}$ 24) _____
- A) -0.12 B) 1.2 C) Not a real number D) -1.2

- 25) $(\sqrt{49})(2^3)$ 25) _____
- A) 56 B) 27 C) 2744 D) 42

Find the value of the expression.

- 26) $\frac{4 \times (8 + 5) + 4 \times 2}{4 \times (7 - 1)}$ 26) _____
- A) $3\frac{1}{27}$ B) 2 C) $2\frac{1}{2}$ D) $2\frac{2}{9}$

Simplify.

- 27) $3 \cdot (3 + 4)^2 - 4 \cdot (6 - 4)^2$ 27) _____
- A) 377 B) 572 C) 153 D) 131

Express the number in standard notation.

- 28) 4.561×10^6 28) _____
- A) 45,610,000 B) 456,100 C) 273.66 D) 4,561,000

Express the number in scientific notation.

- 29) 0.00004752 29) _____
- A) 4.752×10^{-5} B) 4.752×10^4 C) 4.752×10^{-4} D) 4.752×10^5

Perform the indicated calculations. Express the answer in scientific notation.

- 30) $42,061 + 4740$ 30) _____
- A) 4.6801×10^4 B) 1.9937×10^8 C) 4.6801×10^{-1} D) 8.8736

Change numbers in ordinary notation to scientific notation and change numbers in scientific notation to ordinary notation.

- 31) A computer can do one calculation in 1.4×10^{-7} seconds.

A) 0.000014

B) 14,000,000

C) 0.000000014

31)

Solve.

- 32) A research submarine is lowered at an average rate of 5 feet per second. What will be the submarine's depth after 30 seconds?

A) 175 ft.

B) 6 ft.

C) 150 ft.

D) 300 ft.

32)

Chapter 1 TECM 119 Practice Test

Answer Key

- 1) D
- 2) C
- 3) D
- 4) D
- 5) A
- 6) B
- 7) C
- 8) C
- 9) D
- 10) A
- 11) A
- 12) A
- 13) A
- 14) B
- 15) C
- 16) C
- 17) C
- 18) C
- 19) C
- 20) C
- 21) C
- 22) D
- 23) C
- 24) D
- 25) A
- 26) C
- 27) D
- 28) D
- 29) A
- 30) A
- 31) D
- 32) C