

1.6.22 Subtraction of Integers & Polynomials 2 Subtraction

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

Evaluate.

1) $\frac{7}{15} - \frac{13}{15}$ 1) _____
 A) $-\frac{2}{75}$ B) -6 C) $-\frac{2}{5}$ D) $\frac{2}{5}$

2) $\frac{4}{8} - \frac{3}{8}$ 2) _____
 A) $\frac{3}{16}$ B) $\frac{1}{2}$ C) $\frac{1}{4}$ D) $\frac{1}{8}$

3) $\frac{1}{9} - \left(-\frac{2}{9}\right)$ 3) _____
 A) $-\frac{1}{9}$ B) $\frac{1}{9}$ C) $\frac{1}{3}$ D) $-\frac{1}{3}$

4) $\left(\frac{2}{13} - \frac{5}{13}\right) - \left(\frac{9}{13} - \frac{1}{13}\right)$ 4) _____
 A) -1 B) $\frac{7}{13}$ C) $\frac{5}{13}$ D) $-\frac{11}{13}$

5) $\left(\frac{24}{17} - \frac{18}{17}\right) - \left(\frac{18}{17} + \frac{23}{17}\right)$ 5) _____
 A) $\frac{1}{17}$ B) $\frac{11}{17}$ C) $\frac{47}{17}$ D) $-\frac{35}{17}$

6) $-\frac{1}{8} - \frac{7}{8}$ 6) _____
 A) 1 B) $\frac{3}{4}$ C) $-\frac{3}{4}$ D) -1

Combine like terms.

7) $9x + 12x$ 7) _____
 A) $21x^2$ B) $108x$ C) $42x$ D) $21x$

8) $2mn - 2mn$ 8) _____
 A) 0 B) mn C) $-mn$ D) $4mn$

9) $6hk + 7hk + 4hk$ 9) _____
 A) $17hk$ B) $-17h^2k^2$ C) $17h^2k^2$ D) $-17hk$

10) $11t + 14t$ 10) _____
 A) $-3t$ B) $25t^2$ C) $25t$ D) $-25t$

1.6.22 Subtraction of Integers & Polynomials 2 Subtraction

- 11) $2ef + 4ef - 32ef$ 11) _____
 A) $26e^2f^2$ B) $-26ef$ C) $26ef$ D) $-26e^2f^2$
- 12) $7s + 10t + 9s$ 12) _____
 A) $16s + 10t$ B) $16s^2 + 10t$ C) $-16s + 10t$ D) $17t + 9s$
- 13) $10 + 6t + 4$ 13) _____
 A) $6t - 14$ B) $6t + 40$ C) $6t^2 + 14$ D) $6t + 14$
- 14) $-12y^2z + 4xy^2 - 7y^2z + 14$ 14) _____
 A) $4xy^2 + 19y^2z + 14$ B) $4xy^2 - 19y^2z + 14$
 C) $-4xy^2 - 19y^2z + 14$ D) $-4xy^2 + 19y^2z + 14$
- 15) $15xy^2 + 11xy + 15xy^2$ 15) _____
 A) $30xy^2 + 11xy$ B) $30x^2y^4 + 11xy$ C) $30xy^4 + 11xy$ D) $26xy^2 + 15xy$
- 16) $9a - 5a + 4$ 16) _____
 A) $-4a + 4$ B) $4a + 4$ C) $14a + 4$ D) $8a$

Solve the problem.

- 17) The stock market gained 10 points on Tuesday and lost 38 points on Wednesday. Find the difference between these changes. 17) _____
 A) -48 points B) 48 points C) -28 points D) 28 points
- 18) The ocean surface is at 0 ft elevation. A diver is underwater at an elevation of -224 ft near a rock formation. In this area, the ocean floor has an elevation of -263 ft. The rock formation rises to a peak 216 above the ocean floor. How many feet below the top of the rock formation is the diver? 18) _____
 A) 177 ft B) 47 ft C) 8 ft D) 39 ft
- 19) The temperature at the South pole was 1° at 8 am. At 3 pm, it was -24° . By how many degrees did the temperature drop? 19) _____
 A) by 23° B) by 25° C) by -23° D) by -25°
- 20) Wayne has \$22.66 in his wallet. Janice has a debt note for \$33.44 in her wallet. Find the difference between these amounts. 20) _____
 A) \$56.10 B) $-\$56.10$ C) $-\$10.78$ D) \$10.78

1.6.22 Subtraction of Integers & Polynomials 2 Subtraction

21) On a given day, the net income (in thousands of dollars) for five banks in a certain city is given in the table. What is the total net of these incomes? 21) _____

Bank	Net Income
A	25
B	-39
C	101
D	83
E	-130

- A) 50 thousand dollars B) -378 thousand dollars
 C) 40 thousand dollars D) 378 thousand dollars

22) Jarod operates a small part-time business from his home. The accompanying graph shows the daily profit or loss for his business. What was the total profit/loss for the week? 22) _____



- A) +\$152 profit B) +\$120 profit C) -\$152 loss D) +\$194 profit

23) The two charts show the weight gain of some people and the weight loss of other people. Use the information given to answer the questions below. How much more weight did Don lose than Ed? 23) _____

Weight Gain		Weight Loss	
Name	(in grams)	Name	(in grams)
Abe	3051	Don	-2958
Bob	4208	Ed	-2177
Carl	1695	Frank	-857

- A) -5135 grams B) 5135 grams C) 781 grams D) -781 grams

1.6.22 Subtraction of Integers & Polynomials 2 Subtraction

24) For the XYZ Corporation, the net change (to the nearest dollar) in stock values for the first six months is given in the table. What is the total net change in value for the first six months? 24) _____

Month	Net Change
January	-1
February	4
March	7
April	2
May	-2
June	-6

- A) 4 B) 15 C) -22 D) 22

Evaluate.

25) $(25 - 5) - 24$ 25) _____
 A) -4 B) 44 C) 6 D) 54

26) $(21 + 8) - (15 - 20)$ 26) _____
 A) -48 B) 34 C) 48 D) 6

27) $(-7 + 2) - (-14 + 5)$ 27) _____
 A) -24 B) 0 C) 14 D) 4

28) $-35 + [19 - (-3 + 2)]$ 28) _____
 A) -11 B) -17 C) -55 D) -15

29) $2 + 7 - (-6)$ 29) _____
 A) 15 B) -11 C) -15 D) 3

30) $-0.9 - (-14.7) - (-7.5)$ 30) _____
 A) -8.1 B) 21.3 C) -21.3 D) -23.1

31) $12 - (-6)$ 31) _____
 A) 6 B) -18 C) -6 D) 18

32) $-15 + 1 - 2$ 32) _____
 A) -12 B) -16 C) -14 D) 16

Write as a subtraction problem and evaluate.

33) The sum of 6 and -7, decreased by 2 33) _____
 A) $[6 + (-7)] + 2; 1$ B) $[6 - (-7)] - 2; 11$
 C) $[6 + (-2)] + 7; 11$ D) $[6 + (-7)] - 2; -3$

34) 12 less than the difference of 19 and -14 34) _____
 A) $14 - 19 - 12; -45$ B) $12 - 19 - (-14); 7$
 C) $-14 - 19 - 12; -45$ D) $[19 - (-14)] - 12; 21$

1.6.22 Subtraction of Integers & Polynomials 2 Subtraction

35) The difference of 19 and -11

A) $11 - 19; -8$

B) $19 - (-11); 8$

C) $-11 - 19; -30$

D) $19 - (-11); 30$

35) _____

36) The difference of $-2xy$ and $-2xy$ added to the difference of $5xy$ and $-8xy$

A) $[(-2xy + (-2xy)) + [5xy - (-8xy)]]; 9xy$

B) $[(-2xy - (-2xy)) - [5xy - (-8xy)]]; -13xy$

C) $[5xy - (-8xy)] + [(-2xy - (-2xy))]; 13xy$

D) $[5xy - (-8xy)] - [(-2xy + (-2xy))]; 17xy$

36) _____

37) The sum of -2 and 9 subtracted from the difference of 8 and -3

A) $(-2 - 9) - [8 + (-3)]; -16$

B) $[8 - (-3)] - (-2 - 9); 22$

C) $(-2 + 9) - [8 - (-3)]; -4$

D) $[8 - (-3)] - (-2 + 9); 4$

37) _____

Answer Key

Testname: 1.6.22 SUBTRACTION INTEGERS POLYNOMIALS

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