

Grade: 7

Topic: Final Exam - Revision Worksheet

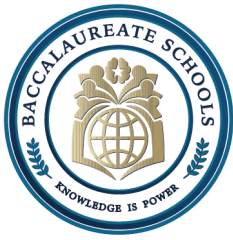
Student Name:

Lessons Included:

- 1-1 Integers & Opposites
 - 1-2 Rational Numbers
 - 1-3 Add Integers
 - 1-4 Subtract Integers
 - 1-5 Add & Subtract Rational Numbers
 - 1-6 Multiply Integers
 - 1-7 Multiply Rational Numbers
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 - 2-2 Unit Rates with Fraction Ratios
 - 2-3 Understand Proportional Relationships
 - 2-4 Constant of Proportionality
 - 2-5 Graph Proportional Relationships
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1-1: Relate Integers & Opposites

1. What is the opposite of -18 ?
A. 18 B. 0 C. -18 D. -1
2. Which pair are opposites?
A. -3 and 3 B. 6 and 6 C. -4 and -6 D. 1 and -2
3. $|-15| =$
A. -15 B. 1 C. 0 D. 15
4. Which integer represents 30 feet below sea level?
A. -30 B. 30 C. -3 D. 3



5. The opposite of 4.2 is:

- A. -4.2 B. 4.2 C. -2.4 D. 0

6. Which has the greatest absolute value?

- A. -11 B. 9 C. -7 D. 10
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1-2: Understand Rational Numbers

7. Which is a rational number?

- A. π B. $\sqrt{5}$ C. $7/8$ D. Non-terminating non-repeating decimal

8. Which number is NOT rational?

- A. -2 B. 0.75 C. $\sqrt{3}$ D. -9

9. Convert $1\frac{1}{2}$ to a decimal.

- A. 1.25 B. 1.5 C. 1.75 D. 1.33

10. Which number is least?

- A. -0.4 B. -1.2 C. 0 D. -0.9

11. Which is equivalent to 0.125?

- A. $1/6$ B. $1/8$ C. $1/5$ D. $1/4$

12. Which decimal is repeating?

- A. 0.5 B. 0.333... C. 1.2 D. 0
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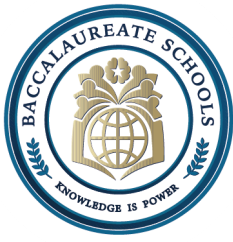
1-3: Add Integers

13. $-5 + 8 =$

- A. -13 B. 3 C. -3 D. 13

14. $12 + (-20) =$

- A. -8 B. 8 C. -32 D. 32



15. $-9 + (-6) =$

- A. -3 B. -15 C. 15 D. 3

16. $-2 + 7 + (-3) =$

- A. -12 B. 2 C. -2 D. 10

17. $14 + (-14) =$

- A. 0 B. -28 C. 28 D. -14

18. $-3 + (-3) + (-3) =$

- A. -3 B. -9 C. 9 D. 0

1-4: Subtract Integers

19. $5 - (-3) =$

- A. -8 B. 8 C. 2 D. -2

20. $-7 - 2 =$

- A. -5 B. 5 C. -9 D. 9

21. $-12 - (-5) =$

- A. -7 B. -17 C. 17 D. 7

22. $9 - 15 =$

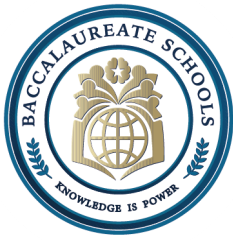
- A. -6 B. 6 C. -24 D. 24

23. $-1 - (-9) =$

- A. -10 B. 8 C. 10 D. -8

24. $-4 - (-4) =$

- A. -8 B. 0 C. 8 D. 4
-



1-5: Add & Subtract Rational Numbers

25. $1.2 + (-0.7) =$

- A. 0.5 B. -0.5 C. 1.9 D. -1.9

26. $-3.5 + (-1.25) =$

- A. -4.75 B. 4.75 C. -2.25 D. -3.25

27. $\frac{2}{3} + \frac{1}{4} =$

- A. $\frac{5}{6}$ B. $\frac{11}{12}$ C. $\frac{1}{8}$ D. 1

28. $-\frac{5}{6} - \frac{1}{3} =$

- A. $-\frac{7}{6}$ B. $-\frac{1}{2}$ C. $\frac{1}{2}$ D. $\frac{7}{6}$

29. $2.5 - (-3.1) =$

- A. -5.6 B. 5.6 C. -0.6 D. 0.6

30. $-4.8 - 2.2 =$

- A. -2.6 B. -7 C. -4.6 D. -1.6

1-6: Multiply Integers

31. $(-6)(7) =$

- A. -13 B. -42 C. 42 D. 13

32. $-8 \times -3 =$

- A. -24 B. 24 C. 11 D. -11

33. $0 \times (-15) =$

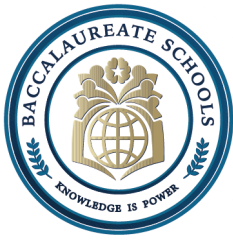
- A. -15 B. 0 C. 15 D. Undefined

34. $(-9)(-2)(3) =$

- A. -54 B. 54 C. 27 D. -27

35. $(-12)(4) =$

- A. 48 B. -48 C. 16 D. -16



36. $5 \times (-5) \times (-2) =$

- A. -50 B. 50 C. -25 D. 25
-

1-7: Multiply Rational Numbers

37. $\frac{1}{2} \times (-6) =$

- A. -3 B. 3 C. -12 D. 12

38. $-\frac{3}{4} \times -8 =$

- A. -6 B. 6 C. -8.75 D. 8.75

39. $1.2 \times 2.5 =$

- A. 3.0 B. 3.2 C. 2.7 D. 30

40. $-0.2 \times 0.4 =$

- A. -0.08 B. 0.08 C. -0.8 D. 0.8
-

1-8: Divide Integers

41. $-20 \div 4 =$

- A. -5 B. 5 C. -80 D. 80

42. $-36 \div -9 =$

- A. -4 B. 4 C. -27 D. 27

43. $60 \div (-12) =$

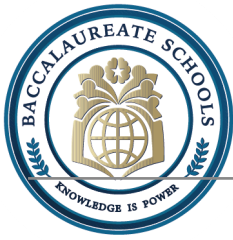
- A. -5 B. 5 C. -720 D. 720

44. $0 \div (-6) =$

- A. 0 B. Undefined C. -6 D. 6

45. $-45 \div 5 =$

- A. -9 B. 9 C. -40 D. 40



1-9: Divide Rational Numbers

46. $6 \div (-\frac{1}{2}) =$

- A. -3 B. -12 C. 12 D. 3

47. $-8 \div 2.5 =$

- A. -3.2 B. 3.2 C. -10.5 D. 10.5

48. $-\frac{3}{4} \div 3 =$

- A. $-\frac{1}{4}$ B. $\frac{1}{4}$ C. -1 D. 1

49. $0.6 \div 0.2 =$

- A. 0.3 B. 3 C. -3 D. -0.3

50. $-9 \div (-1.5) =$

- A. -6 B. 6 C. -7.5 D. 7.5
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2-1: Ratios, Rates, Unit Rates

51. A car travels 180 miles in 3 hours. What is the unit rate?

- A. 30 mph B. 45 mph C. 60 mph D. 90 mph

52. The ratio of boys to girls is 5:8. What fraction of the group are boys?

- A. $\frac{5}{13}$ B. $\frac{5}{8}$ C. $\frac{8}{5}$ D. $\frac{5}{3}$

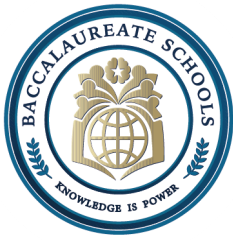
53. A runner goes 2 miles in 16 minutes. Unit rate in minutes per mile:

- A. 8 B. 6 C. 4 D. 12
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2-2: Unit Rates with Ratios of Fractions

54. A recipe uses $\frac{2}{3}$ cup of sugar for $\frac{1}{4}$ batch. Sugar per 1 batch:

- A. $\frac{3}{8}$ B. $\frac{8}{3}$ C. $2\frac{2}{3}$ D. $\frac{4}{3}$



55. A hose delivers $\frac{1}{2}$ gallon in $\frac{1}{6}$ minute. Rate in gallons/min:
A. 3 B. 12 C. $\frac{1}{3}$ D. 6
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2-3: Understand Proportional Relationships

56. A table shows $x = 4$, $y = 10$. If proportional, what is y when $x = 12$?
A. 20 B. 25 C. 30 D. 40
57. If a relationship is proportional, which is true?
A. Ratios vary
B. There is a constant rate of change
C. Graph is curved
D. x and y have no relationship
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2-4: Constant of Proportionality

58. In a proportional table, $x = 5$ and $y = 30$. $k = y/x =$
A. 5 B. 6 C. 35 D. 25
59. If $y = 7x$, the constant of proportionality is:
A. 0 B. 1 C. 7 D. 14

2-5: Graph Proportional Relationships

60. A proportional graph must:
A. Not pass through the origin
B. Be curved
C. Be a straight line through $(0,0)$
D. Be horizontal