

Name _____

6th Grade Final Exam Practice Problems Day 1

- 1) It took Morry $2\frac{5}{6}$ hours to drive to the beach. It took Jason twice as long. About how long did it take Jason to drive to the beach?
A. 1 hour B. 3 hours C. 4 hours **D. 6 hours**

What is the value of each expression in simplest form?

- 2) $12 \times \frac{1}{8}$
A. 12 B. 8 **C. $1\frac{1}{2}$** D. $\frac{3}{4}$

- 3) $\frac{5}{6} \times \frac{7}{10}$
A. $\frac{7}{12}$ B. $\frac{35}{60}$ C. $1\frac{4}{21}$ D. $\frac{50}{42}$

- 4) $1\frac{2}{3} \times 2\frac{3}{5}$
A. $4\frac{2}{3}$ B. $4\frac{2}{3}$ C. $4\frac{2}{5}$ D. $2\frac{2}{5}$

- 5) Ms. Liang is building a deck that is $2\frac{2}{9}$ yards long and $3\frac{2}{5}$ yards wide. What is the area of her deck?
A. $6\frac{2}{5} \text{ yd}^2$ B. $6\frac{3}{5} \text{ yd}^2$ **C. $7\frac{5}{9} \text{ yd}^2$** D. $7\frac{2}{15} \text{ yd}^2$

- 6) John's dog slept for 3 hours. If the dog snored every $\frac{1}{3}$ of an hour, how many times did he snore?
A. 1 time B. 3 times C. 6 times **D. 9 times**

What is the value of each expression in simplest form?

- 7) $8 \div \frac{1}{3}$
A. $\frac{8}{3}$ B. $2\frac{1}{3}$ C. 12 **D. 24**

- 8) $9 \div \frac{3}{5}$
A. 15 B. $5\frac{2}{5}$ C. $4\frac{2}{3}$ D. $2\frac{2}{5}$

- 9) $\frac{1}{2} \div \frac{2}{3}$
A. $\frac{5}{6}$ B. $\frac{1}{3}$ **C. $\frac{3}{4}$** D. $1\frac{1}{2}$

- 10) $\frac{7}{8} \div \frac{3}{4}$
A. $1\frac{1}{6}$ B. $1\frac{2}{7}$ C. $1\frac{1}{8}$ D. $\frac{21}{32}$

11) $3\frac{1}{3} \div 1\frac{7}{8}$

A. $6\frac{1}{4}$

B. $\frac{29}{8}$

C. $1\frac{7}{9}$

D. $\frac{9}{16}$

12) Write $-\frac{12}{25}$ as a decimal.

A. -0.52

B. -0.48

C. $2.0\bar{8}$

D. 12.04

13) Which of the following is a true statement?

A. $-\frac{5}{6} > -\frac{4}{9}$

B. $4.3 > 4\frac{3}{4}$

C. $13\frac{5}{8} = 13.625$

D. $\frac{5}{9} > 0.\bar{57}$

14) Trent made 11 free throws out of 15 attempts during the basketball game. What was his free-throw average expressed as a decimal?

A. 0.7

B. $0.7\bar{3}$

C. $0.3\bar{7}$

D. $0.\bar{8}$

15) Which set of rational numbers is ordered from least to greatest?

A. $-4.\bar{3}$, $4\frac{1}{4}$, $4\frac{1}{5}$, 4.06

B. $-6\frac{5}{8}$, -6.34, $-6.\bar{3}$, $-6\frac{1}{4}$

C. -0.27, $-\frac{2}{9}$, $-\frac{2}{3}$, $-0.\bar{1}$

D. $-7\frac{12}{13}$, $-7\frac{13}{15}$, $-7.8\bar{6}$, $-7.8\bar{6}$

Evaluate each expression.

16) $|-8|$

A. 8

B. -8

C. 0

D. 4

17) $|10 - 3|$

A. -7

B. 10

C. 3

D. 7

18) $|-14| + |5|$

A. 19

B. 11

C. -1

D. -19

19) What is the opposite of -17?

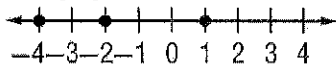
A. -17

B. 17

C. 0

D. $-|17|$

20) Which set of integers is graphed on the number line?



A. $\{-4, -2, -1\}$

B. $\{-4, -2, 1\}$

C. $\{-4, -1, 2\}$

D. $\{-4, 1, 2\}$

For Exercises 21 and 22, use the coordinate plane below.

21) Which ordered pair names point E ?

A. $(-1, 5)$

B. $(-5, 1)$

C. $(1, -5)$

D. $(5, -1)$

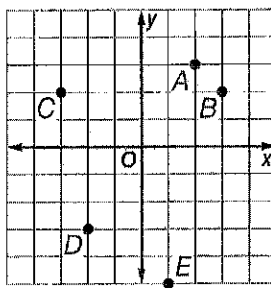
22) Which of the following names the point for the ordered pair $(2, 3)$?

A. point A

B. point C

C. point B

D. point D



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6th Grade Final Exam Practice Problems Day 2

- 23) Which situation does the integer -6 best represent?
A. 6 yards behind the winner
B. finding \$6 in a pocket
C. 6 feet above the ground
D. earning \$6

Replace each \odot with $<$, $>$, or $=$ to make a true statement.

- 24) $9 \odot -8$
A. $<$ B. $>$ C. $=$ D. $+$

- 25) $6 \odot -8$
A. $<$ B. $>$ C. $=$ D. $+$

- 26) Which number is less than -3?
A. 0 B. 2 C. -2 D. -4

- 27) Order -5, -7, 0, and 4 from least to greatest.
A. 0, 4, -5, -7
B. -7, -5, 0, 4
C. -5, -7, 0, 4
D. -7, -5, 4, 0

- 28) Which quadrant contains the point named by (2, 5)?
A. Quadrant I
B. Quadrant II
C. Quadrant III
D. Quadrant IV

- 29) Kira has \$40 to spend and used \$20 to buy a new pair of jeans. Which integer best represents the situation of spending \$20?
A. 20
B. 40
C. -20
D. -40

- 30) Geoffrey used 7 out of his 20 tokens on one game at the arcade. What is this fraction written as a decimal?
A. 0.35
B. 0.35
C. 0.4
D. 0.45

- 31) The volume of a certain cube can be found using the expression 5^3 . What is 5^3 written as a product of the same factor?
A. 5×3
B. 3×5
C. $3 \times 3 \times 3 \times 3 \times 3$
D. $5 \times 5 \times 5$

- 32) What is $8 \times 8 \times 8 \times 8$ written using an exponent?
A. 8^4
B. 4^8
C. 8×4
D. 4,096

What is the value of each expression?

- 33) $5^2 + 7$
A. 12 B. 32 C. 33 D. 42

- 34) $21 - 3^2 + 2$
F. 14 G. 16 H. 20 I. 24

35) $5^3 - 2 \times 3 + 1$
A. 50 B. 53 C. 169 **D. 120**

36) $4 \times 3 + 9 \times 8$
F. 59 **G. 84** H. 168 I. 384

37) What is the value of cd if $c = 9$ and $d = 8$?
A. 98 B. 89 **C. 72** D. 17

38) What is the value of $2 + 3n$ if $n = \frac{1}{2}$?
F. $1\frac{1}{2}$ **G. $3\frac{1}{2}$** H. $5\frac{1}{2}$ I. 8

39) What is the value of $s + t - u$ if $s = 12$, $t = 8$, and $u = 20$?
A. 0 B. 10 C. 15 D. 18

Which is the correct algebraic expression for each phrase?

40) 10 dollars less than Caitlin
A. $c + 10$ **B. $c - 10$** C. $10 - c$ D. $10c$

41) 13 times the cost of one ticket
A. $t + 13$ B. $t - 13$ C. $13 + t$ **D. $13t$**

42) twelve inches longer than the width
A. $12w$ B. $12 - w$ **C. $w + 12$** D. $12 \div w$

43) Which property is illustrated by the statement $3 + 0 = 3$?
A. Associative ~~B. Distributive~~
C. Commutative **D. Identity**

44) Which property is illustrated by the statement $6 \cdot 4 = 4 \cdot 6$?
~~A. Associative~~ B. Distributive
C. Commutative D. Identity

45) Which of the following is equivalent to $2 \cdot (4 \cdot 3)$?
A. $2 + (4 + 3)$ B. $2 \cdot (6 \cdot 4)$ **C. $(2 \cdot 4) \cdot 3$** D. 8

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6th Grade Final Exam Practice Problems Day 3

46) Which of the following is the factored form of the expression $18 + 12$?

- A. $2(9 + 6)$ B. $3(6 + 4)$ C. $6(3 + 2)$ D. $9(2 + 3)$

47) Which shows how to find 5×83 mentally by using the Distributive Property?

- A. $3(5 + 80)$ B. $5(80) + 3$ C. $3(80) + 5(3)$ D. $5(80) + 5(3)$

Which expression results from using the Distributive Property?

48) $6(x + 4)$

- A. $6x + 10$ B. $6x + 4$ C. $24x$ D. $6x + 24$

49) $2(5 + r)$

- A. $7 + r$ B. $10 + 2r$ C. $12r$ D. $7 + 2r$

50) $11(n + 3)$

- A. $14n$ B. $n + 33$ C. $33n$ D. $11n + 33$

What is the simplified form of each expression?

51) $2x + 5x + 4x$

- A. $11 + 3x$ B. $7x$ C. $11x$ D. $7x + 4x$

52) $5(4x)$

- A. $9x$ B. $5(4) + 5(x)$ C. $9 + x$ D. $20x$

53) $7(2x + 6y)$

- A. $14x + 42y$ B. $56x$ C. $56xy$ D. $14x + 42$

What is the factored form of each expression?

54) $20x + 35y$

- A. $4x + 7y$ B. $5xy(4 + 7)$ C. $5(4x + 7y)$ D. $(20 + 35) \cdot (x + y)$

55) $24x + 64y$

- A. $4(6x + 16y)$ B. $8(3x + 8y)$ C. $8xy(3 + 8)$ D. $3x + 8y$

What is the solution of each equation?

56) $9 + k = 18$

- A. 18 B. 9 C. 8 D. 7

57) $r - 11 = 5$

- A. 11 B. 14 C. 15 D. 16

58) $3w = 30$
A. 6 B. 9 C. 10 D. 12

59) $\frac{d}{12} = 4$
A. 2 B. 3 C. 8 D. 48

60) $13 = t + 7$
A. 5 B. 6 C. 7 D. 20

61) $10 = t - 8$
A. 2 B. 4 C. 18 D. 20

62) Janeen's mother is 47. She is 26 years older than Janeen. Which equation can be used to find Janeen's age j ?
A. $j + 26 = 47$ B. $j - 26 = 47$
C. $26j = 47$ D. $47j = 26$

63) Quentin bought 6 new tennis balls. If he now has a total of 18 tennis balls, how many did he start with?
A. 9 B. 12 C. 21 D. 24

What is the solution of each equation?

64) $42 = 7f$
A. 294 B. 49 C. 35 D. 6

65) $4 = \frac{x}{8}$
A. 2 B. 4 C. 32 D. 48

66) Antwaun waters his lawn 3 times a week. If he watered his lawn 24 times in all, which equation could be used to find how many weeks he has been watering his lawn?
A. $x + 3 = 24$ B. $24 - x = 3$
C. $3x = 24$ D. $\frac{x}{3} = 24$

67) At a nursery, plants are half off their original price. The sale price of a potted plant is \$5.50. Which equation could be used to find the original cost of the plant?
A. $\frac{c}{2} = \$5.50$ B. $\$5.50c = 2$
C. $2c = \$5.50$ D. $2 + c = \$5.50$

68) Kelly earned \$20 for babysitting. She has also earned money by doing chores. Altogether, she has earned \$100. How much did she earn doing chores?
A. \$5 B. \$20 C. \$80 D. \$120

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6th Grade Final Exam Practice Problems Day 4

69) Which of the following is a solution of the inequality $h + 9 < 20$?

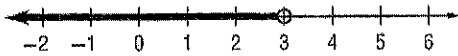
- A. 13 B. 12 C. 11 D. 10

70) The inequality $a < 10$ represents the ages a that qualify for a child ticket. Which children in the Rogers' family qualify for a child ticket?

- A. Chris, Megan, Piper
B. Piper only
C. Chris and Megan
D. Piper and Mark

Rogers' Family Ages	
Chris	5
Megan	8
Piper	10
Mark	12

71) Which inequality is graphed below?



- A. $x \geq 3$ B. $x < 3$ C. $x \leq 3$ D. $x > 3$

72) Miguel has at least \$250 in his savings account. Which inequality represents this situation?

- A. $m < 250$ B. $m > 250$ C. $m \leq 250$ D. $m \geq 250$

73) Which of the following inequalities has the solution shown below?



- A. $3x \leq 6$ B. $3x < 6$ C. $3x \geq 6$ D. $3x > 6$

Solve each inequality.

74) $3 + x \geq 12$

- A. $x \geq 9$ B. $x \geq 15$ C. $x \leq 9$ D. $x \leq 15$

75) $5x < 30$

- A. $x < 150$ B. $x < 6$ C. $x > 150$ D. $x > 6$

76) $\frac{x}{3} \leq 6$

- A. $x \leq 2$ B. $x < 2$ C. $x \leq 18$ D. $x < 18$

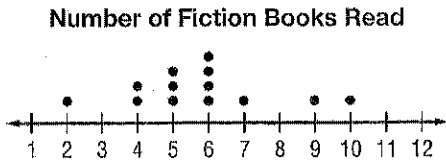
77) The table shows the number of movies owned by a group of surveyed people.

Number of Movies					
11	31	17	22	18	25
25	10	15	12	30	12
29	25	21	32	30	25

What is the median of movies owned?

- A. 21.5
 B. 23.5
 C. 22
 D. 25

For Exercises 78-80, use the dot plot below.



78) What is the mean of the data? Round to the nearest tenth.

- A. 5.7
 B. 5.2
 C. 5
 D. 4.5

79) What is the median of the data?

- A. 10
 B. 9
 C. 6
 D. 3

80) What is the mode of the data?

- A. 3
 B. 6
 C. 8
 D. 10

81) Jamie mowed 7 lawns. He earned \$10, \$15, \$12, \$15, \$8, and \$15 for six lawns. How much did he earn the seventh time if the mean of the data is \$12?

- A. \$9
 B. \$10
 C. \$12
 D. \$15

$$\frac{10 + 15 + 12 + 15 + 8 + 15 + n}{7} = 12$$

$$\frac{75 + n}{7} = 12$$

$$75 + n = 84$$

$$n = 9$$