

6-9-17

Aim: SWBAT review.

Do Now: Work quietly on the "Extra Practice"

HW: Final Exam Tuesday, June 13th

Textbook due on or before the final exam

The Extra Practice answer key is online for you to check your work.

Name _____

7A Extra Practice

1. Evaluate $-2x + y^2$ when $x = -1.2$ and $y = 0.7$.
2. Evaluate $a^2 - b$ when $a = 2\frac{1}{2}$, $b = -\frac{4}{5}$.
3. What is the greatest common factor of 48 and 72?
4. Simplify the following expression: $-3(2x - 4)$
5. Simplify the expression: $\frac{24x^4y^7}{6xy^3}$
6. Translate the following, three times the sum of x and two.
7. Janine's dog weighs three pounds less than twice the weight of Wanda's dog, d . Write an expression.
8. Simplify the expression: $12xy - 15x + 6xy$
9. What is the product of $(6a^3b^4)$ and $(3a^2b^3)$?
10. What is the sum of $(3 + 3)^2$ and 2^3 ?
11. Simplify. $3^3 \cdot 3^4$?
12. What is the value of $3^2 + 4 \cdot 2 - 6 \div 2$?
13. Evaluate: $|10 + -35|$

14. Simplify the expression: $4(x - 2) - 9x$

15. The low temperature on Sunday was -9°F . The high temperature on Sunday was 14° warmer than the low temperature. What was the high temperature on Sunday?

16. The low temperature on Monday was 6° warmer than Sunday's low of -9°F . The low temperature on Tuesday was 3° warmer than Monday's low. What was the low temperature on Tuesday?

17. Use the expression to answer the following question: $5y + 9x - 12 - 3y + x - 4$

a) How many terms are in the expression above? _____

b) State the coefficient of the fifth term. _____

c) Name a constant. _____

d) State a like term for the fourth term. _____

e) State a like term for the sixth term. _____

f) Simplify the expression : $5y + 9x - 12 - 3y + x - 4$

18. Which set of data has no mode?

A) 6, 5, 7, 5, 6 B) 5, 6, 7, 8, 9 C) 5, 6, 7, 7, 7 D) 6, 6, 7, 7, 7

19. John has 5 quarters and 3 dimes in his pocket. Expresses the ratio of dimes to quarters?

20. Sal's Ice Cream stand offers a sundae special; vanilla, chocolate, or strawberry ice cream in either a cup or a cone with a choice of sprinkles or nuts. How many different sundaes could you order?

21. Which of the following triangles does not exist?

A) scalene, acute B) isosceles, obtuse C) equilateral, obtuse D) obtuse

22. In $\triangle ABC$, the $m\angle A = 50^{\circ}$, the $m\angle B = 75^{\circ}$ and the $m\angle C = 55^{\circ}$. Classify the triangle by its sides.

23. John is playing a game with a coin and a number cube. What is the probability of tossing tails on the coin and rolling a 7 on the number cube?

24. Determine which of the following pairs of ratios form a proportion:

A) $\frac{6}{18}$ and $\frac{12}{32}$

B) $\frac{6}{18}$ and $\frac{24}{72}$

C) $\frac{2}{18}$ and $\frac{6}{72}$

D) $\frac{6}{18}$ and $\frac{2}{9}$

25. An 8 ounce bag of candy costs \$9.32. What is the unit price?

26. In a right triangle, one acute angle measures 58° . What is the measure of the other acute angle?

27. An 8 ounce bag of candy costs \$9.32. What is the unit price?

A bag contains 3 red markers, 5 blue markers, 2 green markers and 1 yellow marker.

28. What is the probability that Michelle reaches into the bag and selects a blue or green marker?

29. What is the probability that Michelle reaches into the bag and selects a red marble, replaces it, and then selects a yellow marble?

30. What is the probability that Michelle reaches into the bag and selects a blue marble, keeps it, and then selects another blue marble?

31. For the set of data 10, 10, 12, 14, 14, which statement is true?

A) mean = mode

B) median = mode

C) mean = median

D) mean < median

Stephen conducted an experiment by rolling a die. He recorded his results in the table below. Use the table to answer questions 32 & 33.

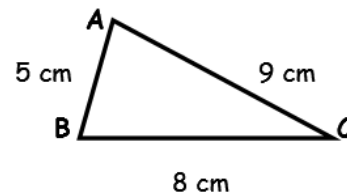
| | | | | | | |
|------------------|---|---|---|----|---|---|
| Result | 1 | 2 | 3 | 4 | 5 | 6 |
| Frequency | 3 | 7 | 4 | 10 | 4 | 2 |

32. What is the experimental probability of rolling a 6?

33. Out of the next 120 rolls, how many would you expect to land on 4?

34. Use the triangle at the right to name the largest angle.

[Diagram not drawn to scale]



35. These are the prices of six different student lunches bought on the same day. What is the range of these prices?

\$6.40, \$3.15, \$2.25, \$5.05, \$3.75, \$2.10

36. Which value of b would make both inequalities true? $b < 22$ and $b \geq 11$

A) $b = 10$

B) $b = 12$

C) $b = 22$

D) $b = 25$

37. Which of the following is equivalent to a **terminating** decimal?

A) $\frac{1}{6}$

B) $\frac{2}{6}$

C) $\frac{3}{6}$

D) $\frac{4}{6}$

38. Which of the following fractions are equivalent to a **repeating** decimal?

A) $\frac{1}{2}$

B) $\frac{1}{3}$

C) $\frac{1}{4}$

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

39. Which is a **rational** number?

A) π

B) $\sqrt{25}$

C) $\sqrt{13}$

D) 0.121121112...

40. Which is an **irrational** number?

A) 0.333...

B) $0.\overline{29}$

C) $\sqrt{100}$

D) $\sqrt{19}$

41. Which of the following statements about the number Pi is NOT true.

A) Pi is an irrational number

B) $\pi = 3.14$

C) The symbol for Pi is π

D) Pi is a Real number

42. Which of the following is **not** a perfect square.

A) 25

B) 49

C) 75

D) 81

43. $\sqrt{75}$ lies between which two consecutive whole numbers?

44. How many whole numbers are between $\sqrt{30}$ and $\sqrt{50}$.

45. Which expression is TRUE?

A) $|-8| = -8$ B) $\sqrt{121} = \pm 11$ C) $0.35 = \frac{7}{20}$ D) $\frac{7}{100} = 0.7$

46. Write an inequality that represents the statement "There are at most 17 flowers in the vase".

47. Write an inequality that represents the statement "Diane has at least 84 toy penguins".

48. Identify ALL the Integer solutions given the following inequality: $x \geq -5$

A) $\{-5, -4, -3\dots\}$ B) $\{-5, -6, -7\dots\}$ C) $\{-4, -3, -2\dots\}$ D) $\{-6, -7, -8\dots\}$

49. Solve. $3(x + 4) + 4 = -20$

50. What is $6.033 \cdot 10^5$ expressed in standard notation?

51. What is 0.0039 expressed in scientific notation?

52. Place each of the following in **ALL** the sets of numbers to which it belongs:

a) $0.\bar{5}$ _____

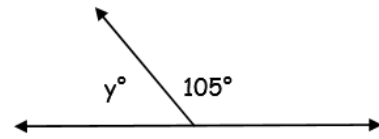
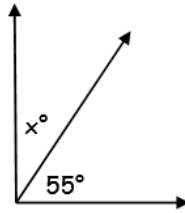
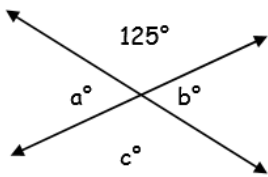
b) $-\sqrt{49}$ _____

c) $\sqrt{13}$ _____

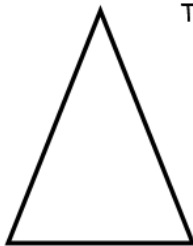
d) $-4\frac{1}{2}$ _____

e) $\sqrt{100}$ _____

53. Find the missing angle(s).



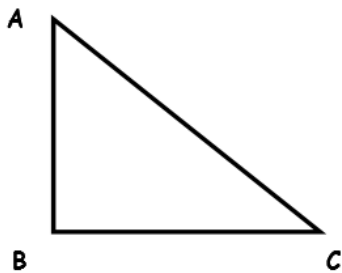
54.



The vertex angle is 45° . What is the measure of each base angle?

55.

$m\angle A = 58^\circ$ What is the measure of angle C ?



Classify by angles. _____

Classify by sides. _____

Identify the longest side. _____

Identify the shortest side. _____

56. The angles of a quadrilateral are 91° , 25° , and 126° . What is the measure of the fourth angle?