

Tucson Unified School District

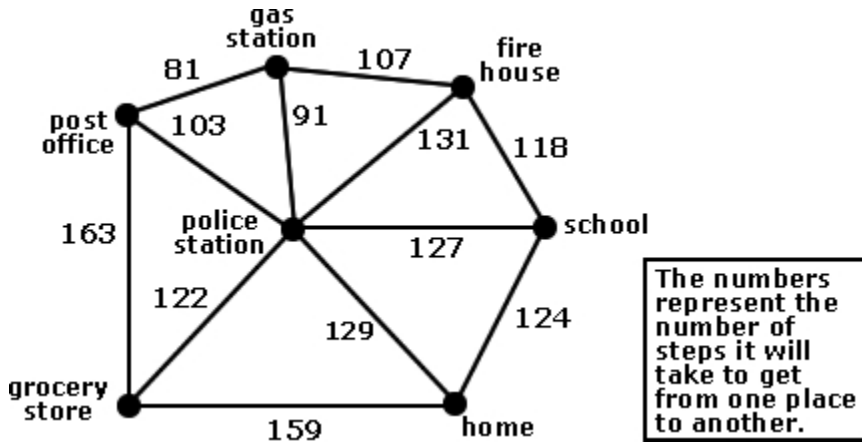
Instructions: It is time to begin. The scores of this test will help teachers plan lessons. Carefully, read each item in the test booklet. Pick the best answer: A, B, C, or D. Use a pencil. Mark your answer on the ANSWER SHEET. Fill in the bracket of your answer choice. Make sure the bracket is completely colored. Erase any extra pencil lines or changed answers. You may write on the test booklet unless your teacher gave you scratch paper. Review and check your answers after you have finished the test.



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2010-11 TUSD Comp. Math 06 Gr. Pretest

- 1) The second grade was taking a walking field trip to all of the locations shown on the map below. Which route should they take so that they visit each location once and do not repeat or cross through areas already visited?



- A) grocery store, police station, fire house, school, home, police station, post office
- B) grocery store, post office, gas station, fire house, school, home, grocery store
- C) grocery store, home, school, fire house, gas station, post office, grocery store
- ✓ D) grocery store, police station, home, school, fire house, gas station, post office
-

- 2) Which is equivalent to the expression below?

$$(0.05 \times 0.62) + (0.49 - 0.27)$$

- A) 0.042
- B) 0.069
- C) 0.2145
- ✓ D) 0.251
-

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3) Which answer accurately shows a stem-and-leaf for the following data?

70, 71, 72, 76, 76, 79, 83, 83, 83

A)	<table border="1" style="border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="padding: 5px;">Stem</th> <th style="padding: 5px;">Leaf</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">7</td> <td style="padding: 5px;">0 1 2 6² 9</td> </tr> <tr> <td style="padding: 5px;">8</td> <td style="padding: 5px;">3³</td> </tr> </tbody> </table>	Stem	Leaf	7	0 1 2 6 ² 9	8	3 ³	<table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <td style="padding: 5px;">Key</td> </tr> <tr> <td style="padding: 5px;">5 9 represents 59</td> </tr> </table>	Key	5 9 represents 59
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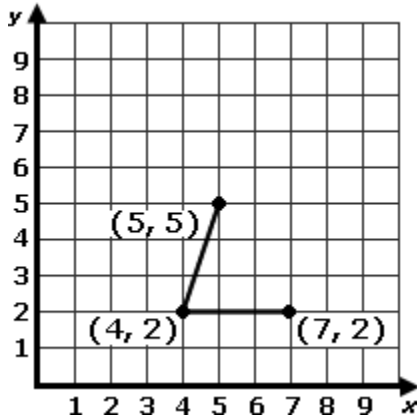
4) Which is equal to the following?

$$\sqrt[3]{64}.$$

- ✓ A) 4
 - B) 21
 - C) 60
 - D) 192
-

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- 5) Which coordinate pair represents the missing vertex of the parallelogram?



- A) (6, 5)
✓ B) (8, 5)
C) (9, 5)
D) (9, 4)
-

- 6) The following are hourly wages of 6 babysitters.

\$5.00, \$2.50, \$3.00, \$4.00, \$5.00, \$6.00

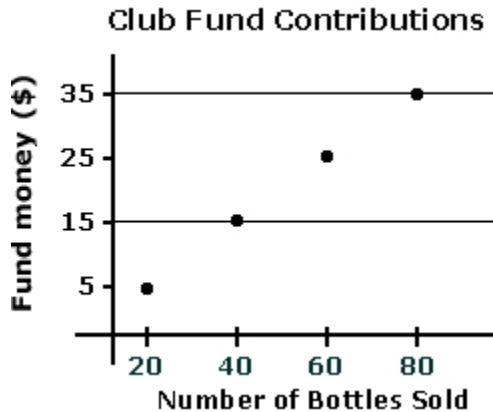
What are the maximum and minimum values of their hourly wages?

- A) maximum value = \$6.00, minimum value = \$3.00
✓ B) maximum value = \$6.00, minimum value = \$2.50
C) maximum value = \$2.50, minimum value = \$5.00
D) maximum value = \$2.50, minimum value = \$6.00
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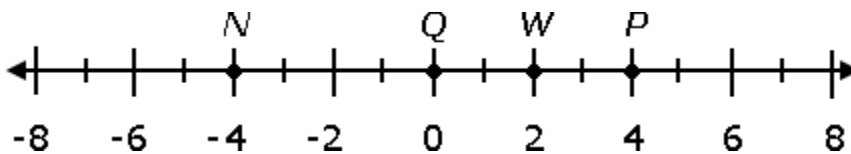
- 7) The Checkers Club booth is selling bottled water at the School Spirit Festival. The graph shows how much money the booth is expecting to contribute to the Club fund based on the number of bottles sold.

Based on the graph, about how much money will the Club fund receive if 120 bottles of water are sold?



- A) \$40
 - B) \$45
 - C) \$50
 - ✓ D) \$55
-

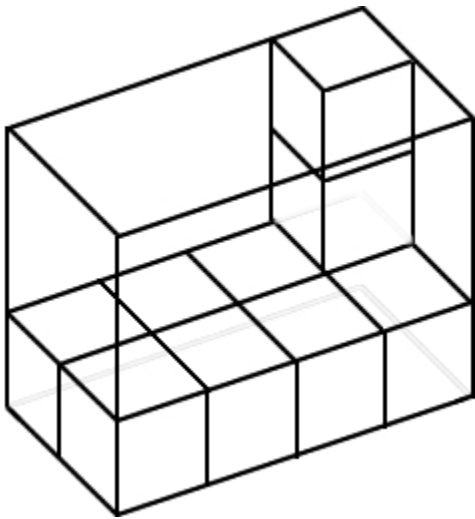
- 8) Which point best represents $|-4|$?



- ✓ A) P
 - B) N
 - C) Q
 - D) W
-

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- 9) The drawing shows a container with some unit cubes placed in it.
How many unit cubes can this container hold?



- A) 24
 - B) 21
 - C) 14
 - D) 10
-

- 10) Which of the following rules could be used to make the number pattern shown below?

9, 3, 1, $\frac{1}{3}$

- A) Add 3 each time.
 - B) Subtract 3 each time.
 - C) Multiply by 3 each time.
 - D) Divide by 3 each time.
-

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13) Which of these best describes the rule for x and y in the table below?

Input (x)	Output (y)
2	9
3	13
4	17
5	21
6	25

✓ A) $4x + 1 = y$

B) $4x - 1 = y$

C) $x + 4 = y$

D) $x - 4 = y$

14) Jeff and George were practicing free throws before a game. They both predicted that during the game they would each make half of their free throws. Jeff made 4 out of 10 free throws and George made 7 out of 10.

Which statement about the predictions is true?

✓ A) George's prediction was too low.

B) George's prediction was too high.

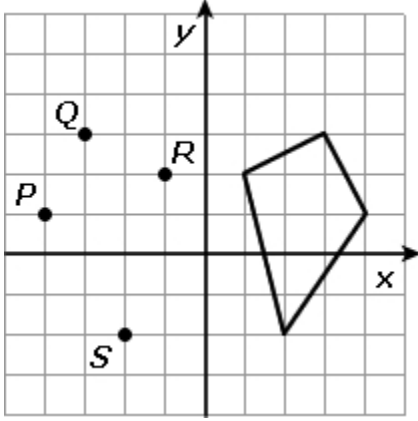
C) Jeff's prediction was too low.

D) Both predictions were too high.

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- 15) Rhett is reflecting the quadrilateral across the y -axis. He is ready to connect the vertices of the new figure with sides.

Which points ought to be connected with a side?



- A) P and R
 - B) Q and S
 - ✓ C) S and R
 - D) every point with every point
-

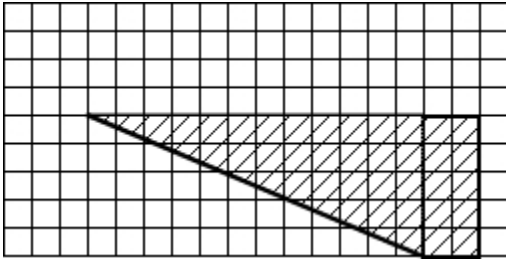
- 16) The band is taking 10 students on a trip. The cost for each student is \$540.

If the band has raised \$3,500 about how much do they still need to raise to pay for the trip?

- A) \$1,000
 - ✓ B) \$2,000
 - C) \$2,500
 - D) \$3,000
-

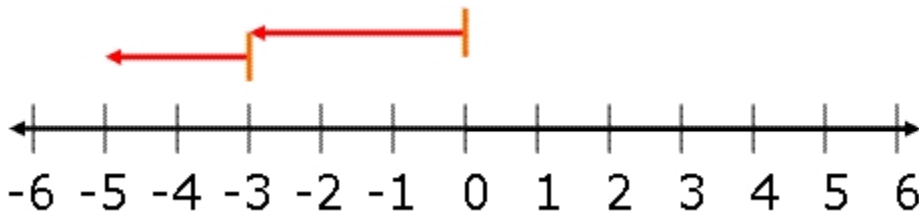
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17) Which represents the area of the figure?



- A) $\frac{1}{2}(5 \times 2) + (5 \times 12)$
 - B) $(5 + 2) \times \frac{1}{2}(5 + 12)$
 - C) $\frac{1}{2} + (5 \times 12) + (5 \times 2)$
 - ✓ D) $\frac{1}{2}(5 \times 2) + (2 \times 5)$
-

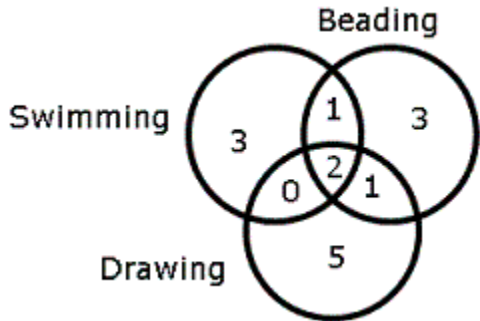
18) Which of the following number sentences is represented on the number line shown below?



- A) $(-3) + 5 = 2$
 - ✓ B) $(-3) + (-2) = -5$
 - C) $(-5) + (-2) = (-7)$
 - D) $(-5) + 3 = (-2)$
-

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19) The Venn diagram shows the results of a survey of the hobbies of 15 people. Those surveyed indicated that swimming, beading, and drawing were their hobbies. How many students enjoyed both swimming and drawing as a hobby?



- A) 0
 - ✓ B) 2
 - C) 8
 - D) 11
-

20) Which fraction represents 40%?

- ✓ A) $\frac{2}{5}$
 - B) $\frac{3}{7}$
 - C) $\frac{3}{8}$
 - D) $\frac{4}{9}$
-

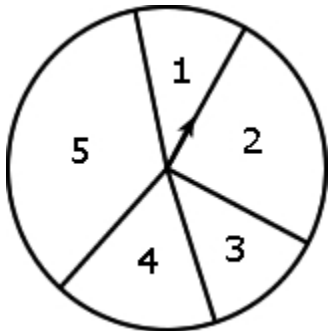
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- 21) The graph shows how far employees of a small company live from work. According to the graph, how many employees live between five and fourteen miles from work?



- A) 6
 - B) 8
 - ✓ C) 9
 - D) 10
-

- 22) Which prediction is most likely true?



- ✓ A) The next spin will most likely land on 5.
 - B) The next spin will most likely land on 4.
 - C) The next spin will most likely land on 3.
 - D) The next spin will most likely land on 2.
-

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23) What is the first step in the solution?

$$\frac{4}{5} \div \frac{1}{3}$$

- A) $\frac{4}{5} \cdot \frac{1}{3}$
 - B) $\frac{12}{15} \div \frac{5}{15}$
 - C) $\frac{4}{15} \div \frac{1}{15}$
 - ✓ D) $\frac{4}{5} \cdot \frac{3}{1}$
-

24) What is the answer to the equation below, in lowest terms?

$$\frac{3}{5} \div \frac{7}{10} =$$

- ✓ A) $\frac{6}{7}$
 - B) $\frac{4}{7}$
 - C) $\frac{21}{50}$
 - D) $\frac{6}{35}$
-

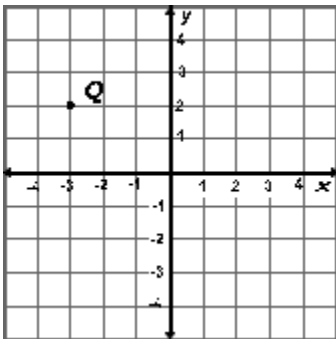
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25) What is the pattern in the following sequence of numbers?

Term Number	1	2	3	4
Term Value	★	★ ★ ★	★ ★ ★ ★ ★ ★	★ ★ ★ ★ ★ ★ ★ ★ ★ ★

- A) Each picture in the pattern increases by 3 more stars each time.
 - B) Each picture in the pattern increases by the number of stars equal to the same number of stars as are in the previous two terms.
 - C) Each picture in the pattern increases by 1 more star each time.
 - ✓ D) Each picture in the pattern increases by the number of stars equal to the term number.
-

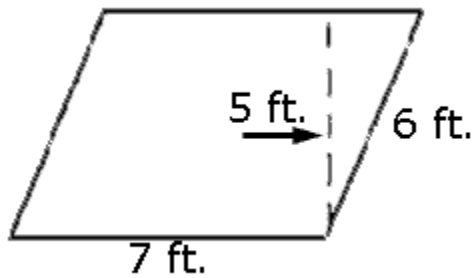
26) What are the coordinates of point Q?



- A) (-2, 2)
 - B) (2, -3)
 - ✓ C) (-3, 2)
 - D) (3, 2)
-

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27) What is the area of the parallelogram?



- A) 12 square feet
 - B) 24 square feet
 - ✓ C) 35 square feet
 - D) 42 square feet
-

28) Which list of numbers is in order from least to greatest?

- ✓ A) $-6, 2\%, \frac{1}{4}, 3.7, 8\frac{1}{5}$
 - B) $2\%, 3.7, \frac{1}{4}, -6, 8\frac{1}{5}$
 - C) $8\frac{1}{5}, 3.7, \frac{1}{4}, 2\%, -6$
 - D) $-6, \frac{1}{4}, 2\%, 3.7, 8\frac{1}{5}$
-

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- 29) Erin makes \$15.00 per day dogsitting for her neighbor. She wants to have enough money to buy a dress for \$55.00.

How many days is she going to have to dogsit?

- A) 3 days
 - ✓ B) 4 days
 - C) 5 days
 - D) 15 days
-

- 30) The answer to the problem below is incorrect. Where is the first mistake?

$$(6 \div 3) + [(5 + 5) \div (5 \times 2)] = 1.2$$

- A) Step 1: Divide 6 by 3. Put 2 above $(6 \div 3)$.
 - B) Step 2: Add 5 and 5. Put 10 above $(5 + 5)$.
 - C) Step 3: Multiply 5 and 2. Put 10 above (5×2) .
 - ✓ D) Step 4: Add 2 and 10, then divide by 10.
-

- 31) Which algebraic expression represents the following phrase?

the product of 8 and a number (n)

- A) $8 \div n$
 - B) $n \div 8$
 - ✓ C) $n \times 8$
 - D) $n + 8$
-

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32) Which is equivalent to the expression below?

$$5(4 + 3) - 21 \div 3$$

- A) 4.7
 - B) 16
 - C) 26
 - ✓ D) 28
-

33) Checking her calculator results, Jen estimates $\$204.73 + \29.35 .

Which is the most reasonable estimate?

- ✓ A) \$235.00
 - B) \$250.00
 - C) \$300.00
 - D) \$335.00
-

34) What is the value of the expression below when $n = 8.5$?

$$14 \times n$$

- A) 22.5
 - B) 112.5
 - ✓ C) 119
 - D) 119.5
-

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35) What number comes next in the pattern?

0.005 0.05 0.5 _____

- A) 0.5
 - ✓ B) 5
 - C) 5.05
 - D) 50
-

36) Which is the solution to the problem shown below?

$525.32 \times 0.035 =$

- A) 183,862
 - B) 1,838.62
 - ✓ C) 18.3862
 - D) 0.183862
-

37) Cecilia made a fruit basket for her grandmother. There were 3 bananas and 6 oranges in the basket. What is the ratio of the number of bananas to the number of oranges in Cecilia's fruit basket?

- ✓ A) 1:2
 - B) 2:1
 - C) 9:3
 - D) 3:9
-

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38) Blanca flipped a fair coin 2 times and recorded her results.

What were the possible outcomes?

- A) HH, HT, TH, TH
 - ✓ B) HH, HT, TH, TT
 - C) HT, HT, TH, TT
 - D) HH, HT, HT, TH
-

39) What value of x makes the equation below true?

$$2.4x + 2.3 = 9.5$$

- A) 0.3
 - B) 0.624
 - ✓ C) 3
 - D) 6.24
-

40) Which is equivalent to the expression below?

$$(3.3 - 2.85) \div 9 + 2$$

- A) 0.04
 - ✓ B) 2.05
 - C) 2.68
 - D) 4.98
-

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- 41) How can the radius of a circle be found from the circumference of a circle?
- A) The radius is half of the circumference.
 - B) The radius is pi multiplied by the circumference.
 - ✓ C) The radius is half of the circumference divided by pi.
 - D) The radius is 2 multiplied by pi multiplied by the circumference.
-

- 42) Francisca paid \$39.96 for 4 DVDs. All 4 DVDs were the same price. How much did each DVD cost?
- A) \$9.90
 - B) \$9.95
 - C) \$9.98
 - ✓ D) \$9.99
-

- 43) Which angle would be complementary to a 24° angle?
- A) 42°
 - ✓ B) 66°
 - C) 156°
 - D) 336°
-

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44) What is the greatest common factor (GCF) of 8 and 16?

- A) 2
 - B) 4
 - ✓ C) 8
 - D) 16
-

45) Which measurement is equal to 10 pounds?

- A) 100 ounces
 - ✓ B) 160 ounces
 - C) 1,000 ounces
 - D) 1,600 ounces
-

2010-11 TUSD Comp. Math 06 Gr. Pretest

Instructions for Student-Read Offline Assessments

Teacher Instructions:

This test packet includes:

- 1) test booklets
- 2) student answer sheets containing student and test identification information

As soon as you receive your test materials, confirm that you have enough testing materials for each student in your class.

You may provide students with scratch paper or students may write in the test booklet.

Allow a few minutes at the beginning of the testing period to review the assessment instructions with students. Students should work through the test items in the test booklet, marking their responses on the answer sheet provided to them. You may answer student questions about the test instructions. Do not answer questions related to the content of the test itself. This includes translating, rephrasing, or adding information to the test question, answers, or related content.

Once the assessment period is over, collect the students' test booklets and answer sheets. Provide to assigned district staff the answer sheets for scanning and the test booklets for proper disposal.