Practice Test Ch 1-6

1. Jackson's dad has just opened a sports store and Jackson is helping him price the tennis balls. Jackson's dad has told him they need to charge more than $2.50 per tennis ball. Jackson has thought of five different rates to charge. Which of the following rates will price tennis balls as greater than $2.50 per ball? Select *all* that apply.

Choice	Amount Charged
A	$40 for 12 tennis balls
B	$35 for 15 tennis balls
C	$60 for 25 tennis balls
D	$70 for 35 tennis balls
E	$80 for 30 tennis balls

2. Andrea pick some grapefruit. Each grapefruit was ¾ pound. When she finishes picking grapefruit, she has a box that weighs 22 pounds. How many grapefruit did Andrea pick? If the box weighs the extra amount, how much does the box weigh?

3. Five teachers went shopping at a music store. Fill in the table below.

Teacher	Number of DVDs	Total Cost	Average Cost
Mrs. Caruso	4		$5.99
Mr. Isaac	5	$37.25	
Mrs. Peranick	5		$6.87
Mrs. Robillard	6		$5.64
Mr. Wong	7	$62.44	

4. Five-sixths of the fish in Tatum's fish tank are guppies. One-third of the guppies are red. What fractional part of the fish in Tatum's tank are not red guppies?

5. There are 24 sixth grader and 28 seventh graders in the Chess Club. Mr. Isaac wants to organize the club members in to equal-sized groups with no left over students. Each group will only have sixth or only seventh graders. What are the greatest size groups Mr. Isaac can form and how many groups will he have in total?

6. Blake's house is located at the point (-6, -8) on a coordinate plane. The location of Tyler's house is a reflection of Blake's house across the x-axis. What is the location of the ordered pair of Tyler's house? What quadrant is it in?

7. Graph the points A(-8, 3), B(-8, -2), C(5, 3) on a coordinate plane. What would the ordered pair of point D be if figure ABCD is a square?

8.   42 - (9.6 ÷ 6) * 8.7

9. Are the statement true or false?
   a. 1 2/5 is between 0 and -1.
   b. -4 ½ is between -3 and -4.
   c. -7 ¾ is between -7 and -8.
   d. ¼ is between 0 and 1.
   e. -2 1/3 is between -1 and -2.

10. The answer to a division problem in David's homework was 1 3/4 . Which of the following expressions might he have solved? Select all that apply.

    a. $2\frac{1}{3} \div 1\frac{1}{3}$

    b. $4\frac{3}{4} \div 3$

    c. $2\frac{2}{3} \div 1\frac{8}{9}$

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

    e. $6 \div 3\frac{3}{7}$

11. Write the values from least to greatest.

-0.3, 1.4, -1/3, -1/5, -0.25, 6/4

12. Select the conversions that are equivalent to 8 yards.

    a.   96 feet
    b.   24 feet
    c.   24 inches
    d.   48 inches
    e.   96 inches

13. Meredith runs a rate of 140 meters per minute. How far does she run in 6 minutes? How long does it take her to run 1 kilometer?

14. Which of the following inequalities are true?

    a.   5 killometers = 5000 meters
    b.   254 centileters > 25.4 liters
    c.   6 kilograms < 600 grams
    d.   43 feet > 15 yards
    e.   10 pints = 5 quarts
    f.   5 tons > 5000 pounds
    g.   600 inches > 50 feet

15. Julia's car has a gas mileage of 21 miles per gallon. How many miles can Julia travel on 8.7 gallons of gas? How many gallons of gas does she need to travel 182.7 miles?

16. A rectangular room measures 14 feet by 156 inches. Julianna wants to know the area of the room, what is the area in square inches and in square feet?

17. Write 0.4% as a fraction and as a decimal.

18. Which statements are correct?

    a. 14 is 20% of 75
    b. 12 is 50% of 26
    c. 14 is 75% of 18
    d. 12 is 30% of 40
    e. 70 is 60% of 120

19. James and Katie went out to lunch. The price for both lunches was $32. They tipped 15% of that amount. How much did each person pay if they shared the price of the lunch and tip equally?

20. George has 60 CDs in his music collection. If 35% of the CDs are country music and 30% are pop music, how many CDs are other types of music?

21. Write 6% as a fraction and a decimal.

22. Cyan made a mosaic wall mural using 38 purple tiles, 23 blue tiles, 19 orange tiles, and 20 white tiles. Write a percent to represent the number of tiles that are not blue or while.