6th Grade Practice Sheet 15

Show all work - *NO CALCULATORS!*

1. Convert into a decimal. $\dfrac{31}{50}$	6. Convert into a decimal. $\dfrac{1}{8}$
2. Convert into a decimal. $\dfrac{9}{25}$	7. Convert into a decimal. $\dfrac{17}{20}$
3. Simplify. $5\dfrac{5}{6} \div 3\dfrac{3}{4} - \dfrac{2}{9}$	8. Simplify. $4\dfrac{3}{8} \div \dfrac{3}{4} \times \dfrac{4}{7}$
4. Find the quotient. $5\overline{)1.417}$	9. Find the quotient. $14\overline{)12.25}$
5. Find the quotient. $6 \div \dfrac{1}{2}$	10. Find the quotient. $\dfrac{3}{7} \div 6$

11. Write the expression. 7 more than the quotient of a number y and 5	16. Simplify. $3(4 + r + 3)$
12. Write the expression. twice the sum of a number x and 8	17. Simplify. $8(3 + x)$
13. Write the expression. 5 less than 3 times a number m	18. Simplify. $2(n + 2 + 12)$
14. Write the expression. 6 times a number n all divided by 0.14	19. Simplify. $5(8 + x) + 12$
15. Simplify.. $\dfrac{1 + 5}{8}$	20. Simplify. $16 - 7 + 30 \div 3$

21) A class was planning a field trip to Hidden Lake Ranch while they were studying a unit on farming. The total cost of the bus is $53.85 round trip. If the price of the bus is divided between the 27 students, **about how much** will each student have to pay?

    a. $1.66   b. $1.80

    c. $1.90   d. $2.00

Passage for questions 22 to 23: The distance around a track is $\frac{1}{4}$ mile. Jessie plans to run 5 miles and has already done 6 laps.

22) Halfway around the track is a water fountain. What is the distance from the start of the track to the water fountain?

    a. $\frac{1}{8}$ mile   b. $\frac{1}{6}$ mile

    c. $\frac{1}{3}$ mile   d. $\frac{1}{2}$ mile

23) How many total laps will it take to run the 5 miles?

    a. 12   b. 16

    c. 20   d. 24

Passage for questions 24 to 25: Dominique and Donald work at a local fast food restaurant. Dominique has worked there 4 months longer than Donald. Her rate of pay is $6.70 an hour. Donald makes $5.85 an hour.

24) Donald's paycheck last week was $70.20. How many hours did he work?

    a. 12   b. 13

    c. 14   d. 15

25) Dominique went home after only 30 minutes on Monday because she felt sick. How much did she make that day?

    a. $2.23   b. $3.30

    c. $3.35   d. $3.45

26) A candy store's special mix contains 6.2 lbs. of chocolates, 5.4 lbs. of caramels, and 8.07 lbs. of jelly beans. This mixture sells for $1.25 per pound. How much does 4.3 lbs cost?

a. $5.15

b. $5.17

c. $5.31

d. $5.38

Passage for questions 27 and 28: Mr. Lee shared his favorite cookie recipe with his math class. He calls them "Magical Cookies" because they "disappear" whenever he makes them. His recipe makes 60 cookies.

Magical Cookies

$\frac{1}{2}$ cup butter

$1\frac{1}{2}$ cups brown sugar

$2\frac{1}{4}$ cups granulated sugar

$3\frac{1}{3}$ cups confectioners sugar

$1\frac{1}{2}$ cups semi-sweet chocolate chips

$2\frac{1}{3}$ cups milk chocolate chips

$3\frac{2}{3}$ cups graham cracker crumbs

27) Kaley wanted to make 30 cookies. Mr. Lee told her to divide each ingredient by 2. How many cups of graham cracker crumbs were needed for 30 cookies?

a $1\frac{5}{6}$

b. $1\frac{1}{2}$

c. $\frac{2}{3}$

d. $\frac{1}{6}$

28) Craig volunteered to bring all of the sugar needed for 60 cookies. How much sugar did he bring altogether?

a. $6\frac{1}{2}$ cups

b. $6\frac{3}{12}$ cups

c. 7 cups

d. $7\frac{1}{12}$ cups

29) Sandra bought four bags of nails for a carpentry project. The weights of the bags, in pounds (lb), are shown. Which is the **closest** to the total weight of the four bags of nails?

$$2\frac{5}{6}\,lb, 1\frac{1}{4}\,lb, 2\frac{1}{8}\,lb, 1\frac{3}{4}\,lb$$

a. 10 lb

b. 8 lb

c. 6 lb

d. 4 lb

30) Which number is equivalent to 7 ÷ 8?

a. 0.56

b. 1.14

c. 0.875

d. 7.8