MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Solve the equation.

1) $5x + 3.7 = 2x - 11$ 1) _____

    A) -5   B) -4.9   C) -0.204   D) -2.041

2) $-0.7x + 1.15 = -0.4x + 2.65$ 2) _____

    A) -45.455   B) -5   C) -13.636   D) 5

3) $x + 2.2 = 8.1$ 3) _____

    A) 10.3   B) 5.9   C) 3.682   D) -5.9

4) $4.3 = 18.3 - x$ 4) _____

    A) 22.6   B) 13.5   C) 14   D) 22.1

5) $6(x - 1.6) = 9.3$ 5) _____

    A) 1.283   B) 1.817   C) 3.15   D) 18.9

6) $1.2x - 3.2 = 0.4x - 2.08$ 6) _____

    A) 1.3   B) 1.26   C) 1.4   D) -0.714

7) $7.6 = y - 2$ 7) _____

    A) 3.8   B) 9.6   C) 7.8   D) 7.4

8) $-24.4 = -6.1x$ 8) _____

    A) -18.3   B) 4.0   C) 2.0   D) 18.3

9) $6(3x - 0.2) = 3x - 1.2$ 9) _____

    A) -0.067   B) 15   C) 0.16   D) 0

10) $1.4x - 4.2 = 0.8x - 1.92$ 10) _____

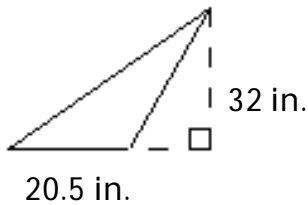   A) 3.762   B) 3.8   C) 0.263   D) 3.79

Solve.

11) Madison, Nicole, and Maria enter a 52.6-mile bicycle team relay race. They complete the   11) _____
course in 2.25 hours. What was their average speed on the course? (Round to the nearest
tenth.)

    A) 0.4 mi/hr   B) 234.0 mi/hr   C) 4.0 mi/hr   D) 23.4 mi/hr

12) In a track meet, Laura runs 400 meters in 54.9 seconds. What was her average speed in meters   12) _____
per second? (Round to the nearest tenth.)

    A) 72.9 m/s   B) 7.3 m/s   C) 1.4 m/s   D) 0.1 m/s

13) In one year, a baseball player got 149 hits in 466 times at bat. What was his batting average?   13) _____
Give decimal notation to the nearest thousandth.

    A) 0.300   B) 0.330   C) 0.323   D) 0.320

14) The water in a tank weighs 435.66 lb. One cubic foot of water weighs 62.5 lb. How many cubic   14) _____
feet of water are in the tank? (Round to the nearest hundredth.)
   A) 498.16 cu. ft   B) 0.14 cu. ft   C) 27,228.75 cu. ft   D) 6.97 cu. ft

15) Travis buys $15.95 worth of gasoline for his car. If the gas station charges $1.579 per gallon,   15) _____
how many gallons did he get? (Round to the nearest tenth.)
   A) 10.1 gal   B) 101.0 gal   C) 1.0 gal   D) 9.9 gal

16) There are approximately 1.609 kilometers in 1 mile. How many miles are there in 40   16) _____
kilometers? (Round to the nearest hundredth.)
   A) 248.60 mi   B) 0.04 mi   C) 24.86 mi   D) 4.02 mi

17) Some desert areas get only 8-10 inches of rainfall per year (365 days). If in one year the rainfall   17) _____
was 8.48 inches, what was the average daily rainfall for that year? (Round to the nearest
thousandth.)
   A) 0.023 in.   B) 0.232 in.   C) 0.233 in.   D) 0.024 in.

18) In one week, Sunil worked 34.25 hours walking dogs and earned $254.25, including tips. How   18) _____
much did Sunil earn per hour? (Round to the nearest cent if necessary.)
   A) $7.42   B) $7.44   C) $7.52   D) $7.40
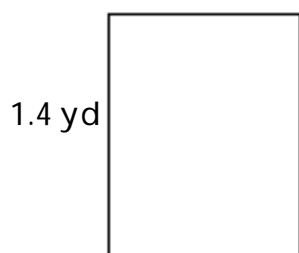
Find the area of the triangle or rectangle. Round to the nearest thousandth, if necessary.
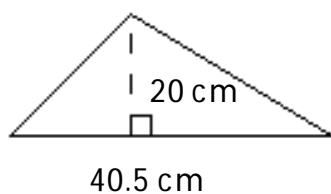
19)   19) _____

   20.5 in.
   A) 656 sq. in.   B) 576 sq. in.   C) 328 sq. in.   D) 512 sq. in.

20) $\frac{4}{5}$ yd   20) _____

1.4 yd

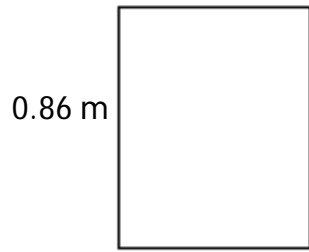   A) 1.131 sq. yd   B) 4.4 sq. yd   C) 15.4 sq. yd   D) 1.12 sq. yd

21)   21) _____

   40.5 cm
   A) 250 sq. cm   B) 200 sq. cm   C) 405 sq. cm   D) 810 sq. cm

2

22) $\frac{5}{8}$ m   22) _____

0.86 m

A) 1.485 sq. m   B) 2.97 sq. m   C) 0.538 sq. m   D) 0.544 sq. m

Write the fraction as a decimal. If necessary, use repeating decimal notation.

23) $-\frac{24}{25}$ 23) _____

A) -1.16   B) -0.86   C) -1.06   D) -0.96

24) $-\frac{4}{9}$ 24) _____

A) -0.04   B) $-0.\overline{04}$ C) $-0.\overline{4}$ D) -0.4

25) $-\frac{13}{20}$ 25) _____

A) $-0.\overline{655}$ B) -0.65   C) $-0.6\overline{5}$ D) $-0.\overline{65}$

26) $\frac{7}{5}$ 26) _____

A) 0.71   B) 1.6   C) 1.2   D) 1.4

27) $\frac{47}{16}$ 27) _____

A) $2.93\overline{75}$ B) $2.9\overline{375}$ C) $2.937\overline{5}$ D) 2.9375

Solve the equation by first multiplying both sides through by an appropriate power of 10 so that the equation contains integers only.

28) 1.6x - 3 - 1.1x = 14.5   28) _____
    A) 35   B) 3.5   C) 6.481   D) 29.6

29) 0.3x + 0.2 = -0.4   29) _____
    A) -0.2   B) 0.667   C) -0.667   D) -2

1) B
2) B
3) B
4) C
5) C
6) C
7) B
8) B
9) D
10) B
11) D
12) B
13) D
14) D
15) A
16) C
17) A
18) A
19) C
20) D
21) C
22) C
23) D
24) C
25) B
26) D
27) D
28) A
29) D