Benchmark 3 (Homework 3)

Chapter 7 Assessment • Form A

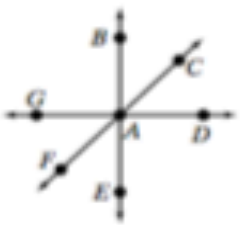
Circle the letter of the best answer.

1. Solve $\frac{1}{3}(b - 4) = 1$.
   A. $b = 5$ **B.** $b = -1$ **C.** $b = 7$ **D.** $b = 1\frac{3}{4}$
2. Solve $3w - 4 = w + 8$.
   F. $w = 30$ **G.** $w = -20$ **H.** $w = -6$ **J.** $w = 6$
3. Solve $2.4(n - 1) = 12$.
   A. $n = 6$ **B.** $n = 1.5$ **C.** $n = 5$ **D.** $n = -5$
4. Solve $5t + 1 > 3t - 13$.
   F. $t > -6$ **G.** $t > -7$ **H.** $t > 6$ **J.** $t < 7$
5. Solve $3n - 16 \leq 8n + 29$.
   A. $-n \leq -9$ **B.** $n \geq 9$ **C.** $n \geq -9$ **D.** $n \leq -9$
6. Find the simple interest on \$750 deposited at an interest rate of 3.5% for 3 years.
   F. \$828.75 **G.** \$262.50 **H.** \$67.50 **J.** \$78.75

Chapter 9 Assessment • Form A

Circle the letter of the best answer.

1. Find the perimeter of a square that has a side measure of 45 cm.
   A. 90 cm **B.** 135 cm **C.** 180 cm **D.** 225 cm
2. Find the perimeter of a rectangle that has length 15 in. and width 12 in.
   F. 54 in. **G.** 42 in. **H.** 39 in. **J.** 27 in.
3. A circle has a radius of 4.7 cm. Find the circumference to the nearest tenth. Use 3.14 for π.
   A. 14.8 cm **B.** 69.4 cm **C.** 19.5 cm **D.** 29.5 cm
4. The measures of two angles of a triangle are 28° and 58°. What is the measure of the third angle?
   F. 28° **G.** 16° **H.** 94° **J.** 58°
5. The measure of two angles of a triangle are 28° and 58°. Classify the triangle by its angles.
   A. obtuse **B.** acute **C.** right **D.** equilateral
6. Which of the following is a line perpendicular to $\overleftrightarrow{BE}$ in the diagram on the right?
   F. $\overleftrightarrow{CF}$ **G.** $\overleftrightarrow{GD}$
   H. $\overleftrightarrow{AE}$ **J.** $\overleftrightarrow{AF}$



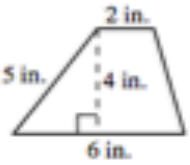
7. Which of the following is an angle vertical to $\angle BAC$ in the diagram above?
   A. $\angle CAE$ **B.** $\angle CAD$ **C.** $\angle GAF$ **D.** $\angle FAE$

Benchmark 3 (Homework 3)

Chapter 10 Assessment • Form A

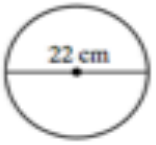
Circle the letter of the best answer.

1. Find the area.



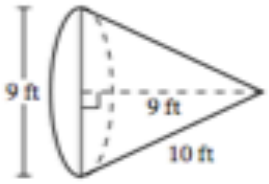
   A. 24 in.^{2} **B.** 18 in.^{2}
   C. 16 in.^{2} **D.** 32 in.^{2}

2. Find the approximate area.



   F. 69.08 cm^2 **G.** 1,519.76 cm^2
   H. 138.16 cm^2 **J.** 379.94 cm^2

3. Find the approximate surface area.



   A. 191 ft^2 **B.** 64 ft^2
   C. 205 ft^2 **D.** 572 ft^2

4. Find the approximate volume of the cone in number 3.
   F. 191 ft^3 **G.** 64 ft^3 **H.** 205 ft^3 **J.** 572 ft^3

Chapter 11 Assessment • Form A

Circle the letter of the best answer.

1. Which of the following is the best estimate of $\sqrt{76}$?
   A. 6 **B.** 7 **C.** 8 **D.** 9
2. Which of the following is the best estimate of $\sqrt{119}$?
   F. 9 **G.** 10 **H.** 11 **J.** 12
3. Which of the following is a rational number?
   A. $\sqrt{36}$ **B.** 0.93993 . . . **C.** $\sqrt{85}$ **D.** 3.474477 . . .
4. Which of the following is an irrational number?
   F. 743,743 **G.** $\sqrt{169}$ **H.** 0.2323 . . . **J.** 0.151155 . . .
5. Which of the following could be the lengths of the sides of a right triangle?
   A. 2, 6, $\sqrt{38}$ **B.** 5, 12, 13 **C.** 36, 64, 100 **D.** 7, 8, 11
6. Which of the following could be the lengths of the sides of a 30°-60°-90° right triangle?
   F. 3, 3, $3\sqrt{2}$ **G.** 9, $18\sqrt{3}$, 18 **H.** 6, $6\sqrt{3}$, 12 **J.** 5, $5\sqrt{2}$, $5\sqrt{3}$
7. Find sin 28° to four decimal places.
   A. 0.4695 **B.** 0.8829 **C.** 0.5317 **D.** 0.6157