

8th Grade Geometry Readiness: Spring Screener

Questions 1-3: Select the correct answer for each question.

1. Figure B is a scaled drawing of figure A with a scale factor of 5. Find the length for figure B.

Figure A

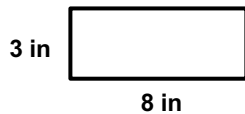
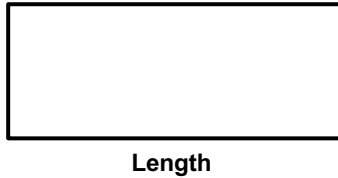


Figure B



- 24in
 40 in
 13 in
 15 in

2. Figure D is a scaled drawing of figure C. Find the missing length in figure D.

Figure C

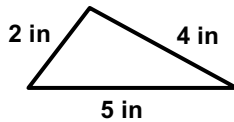
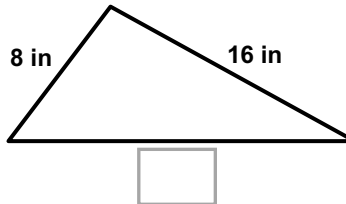


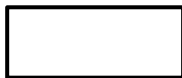
Figure D



- 20 in
 4 in
 1.25 in
 10 in

3. Figure F is a scaled drawing of figure E with a scale factor of 3. If the area of Figure E is 10 ft², then what is the area of figure F?

Figure E



Area = 10 ft²

Figure F



Area =

- 13 ft²
 30 ft²
 19ft²
 90 ft²



Please stop, put your pencil down and wait for the next directions.



8th Grade Geometry Readiness: Spring

(continued)

Questions 4-6: Select the correct answer for each question.

4. Which set of dimensions can be 3 sides of a triangle?

5 in, 8 in, and 13 in

5 in, 7 in, and 13 in

5 in, 7 in, and 12 in

5 in, 8 in, and 12 in

5. Two dimensions of a triangle are 5 in and 11 in. Select the length that is possible for the third side of the triangle?

5 in

6 in

15 in

16 in

6. Two angle measures of a triangle are 35 and 60 degrees. Select the measurement that is possible for the third angle of the triangle?

5 degrees

85 degrees

75 degrees

95 degrees

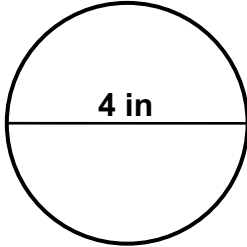


Please stop, put your pencil down and wait for the next directions.

Questions 7-9: Select the correct number and label for each question.

7. Find the circumference of the circle. (Use 3.14 for π .)

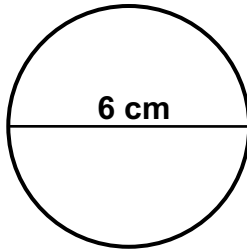
(Note: The figure is not drawn to scale.)



- 25.13 12.57 50.27 100.54
 in in² in³

8. Find the area of the circle. (Use 3.14 for π .)

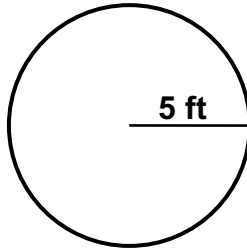
(Note: The figure is not drawn to scale.)



- 113.04 18.85 37.7 28.26
 cm² cm cm³

9. Find the area of the circle. (Use 3.14 for π .)

(Note: The figure is not drawn to scale.)



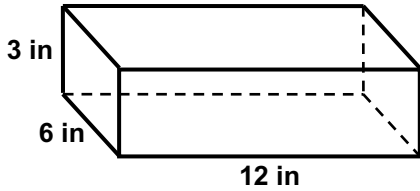
- 62.8 31.4 314 78.5
 ft³ ft² ft



Please stop, put your pencil down and wait for the next directions.

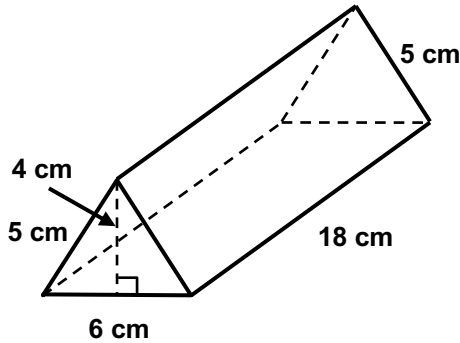
Questions 10-12: Select the correct number and label for each question.

10. Find the surface area of the right prism. (Note: The figure is not drawn to scale.)



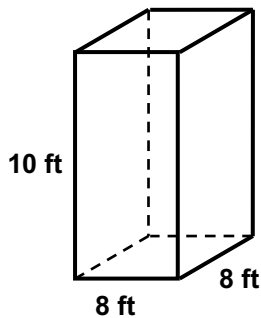
- 234 108 252 216
 in in² in³

11. Find the surface area of the right prism. (Note: The figure is not drawn to scale.)



- 312 216 288 300
 cm² cm cm³

12. Find the surface area of the right prism. (Note: The figure is not drawn to scale.)



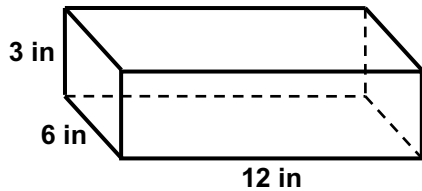
- 320 384 640 448
 ft³ ft² ft



Please stop, put your pencil down and wait for the next directions.

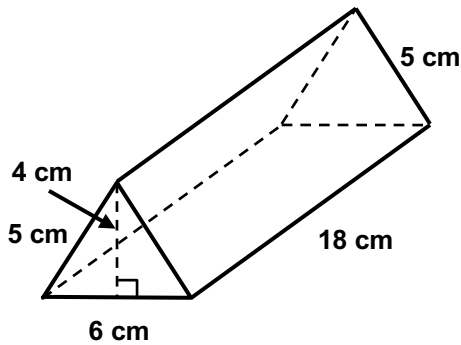
Questions 13-15: Select the correct number and label for each question.

13. Find the volume of the right prism. (Note: The figure is not drawn to scale.)



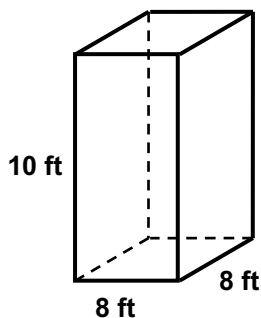
- 234 108 252 216
 in in² in³

14. Find the volume of the right prism. (Note: The figure is not drawn to scale.)



- 312 216 288 300
 cm² cm cm³

15. Find the volume of the right prism. (Note: The figure is not drawn to scale.)



- 320 384 640 448
 ft³ ft² ft



Please stop, put your pencil down and wait for the next directions.