

8th Grade Geometry Readiness: Fall 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 4. Find the length for figure B.

Figure A

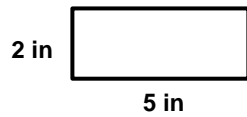
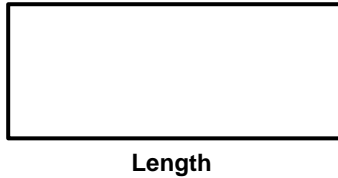


Figure B



- 8 in
 9 in
 10 in
 20 in

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

Figure C

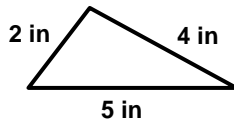
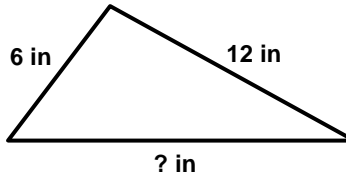


Figure D



- 5 in
 10 in
 15 in
 2.5 in

3. Figure F is a scaled drawing of figure E with a scale factor of 3. If the area of Figure E is 4 ft^2 , then what is the area of figure F?

Figure E



Area = 4 ft^2

Figure F



Area = $? \text{ ft}^2$

- 9 ft^2
 36 ft^2
 3 ft^2
 12 ft^2



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



8th Grade Geometry Readiness: Fall

(continued)

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

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

- 3 in, 6 in, and 10 in
- 3 in, 6 in, and 9 in
- 3 in, 7 in, and 9 in
- 3 in, 7 in, and 10 in

5. Two dimensions of a triangle are 4 in and 10 in. Select the length that is possible for the third side of the triangle?

- 5 in
- 14 in
- 6 in
- 12 in

6. Two angle measures of a triangle are 25 and 50 degrees. Select the measurement that is possible for the third angle of the triangle?

- 15 degrees
- 75 degrees
- 95 degrees
- 105 degrees

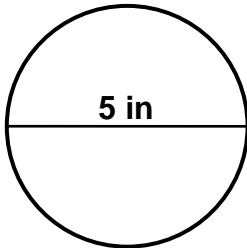


Please stop, put your pencil down and wait for the next directions.

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

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

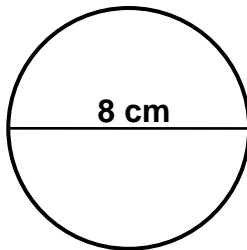
(Note: The figure is not drawn to scale.)



- | | | | |
|----------------------------|---------------------------------------|---------------------------------------|----------------------------|
| <input type="radio"/> 78.5 | <input type="radio"/> 19.625 | <input type="radio"/> 15.7 | <input type="radio"/> 31.4 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |

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

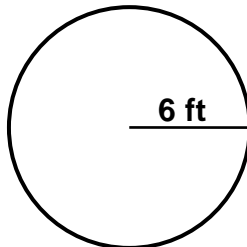
(Note: The figure is not drawn to scale.)



- | | | | |
|---------------------------------------|------------------------------|---------------------------------------|------------------------------|
| <input type="radio"/> 50.24 | <input type="radio"/> 200.96 | <input type="radio"/> 25.12 | <input type="radio"/> 100.48 |
| <input type="radio"/> cm ² | <input type="radio"/> cm | <input type="radio"/> cm ³ | |

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

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



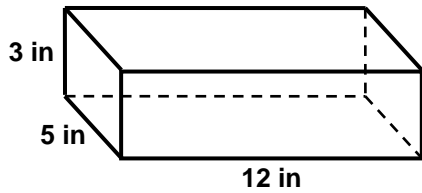
- | | | | |
|---------------------------------------|---------------------------------------|-----------------------------|------------------------------|
| <input type="radio"/> 28.26 | <input type="radio"/> 452.16 | <input type="radio"/> 37.68 | <input type="radio"/> 113.04 |
| <input type="radio"/> ft ³ | <input type="radio"/> ft ² | <input type="radio"/> ft | |



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

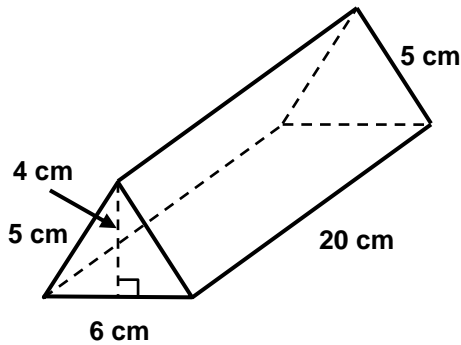
Questions 10-12: Select the correct number and label for each question.

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



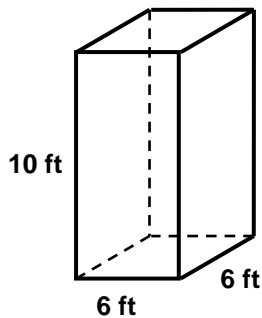
- | | | | |
|---------------------------|---------------------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 222 | <input type="radio"/> 180 | <input type="radio"/> 207 | <input type="radio"/> 192 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |

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



- | | | | |
|---------------------------------------|---------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 332 | <input type="radio"/> 240 | <input type="radio"/> 320 | <input type="radio"/> 344 |
| <input type="radio"/> cm ² | <input type="radio"/> cm | <input type="radio"/> cm ³ | |

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



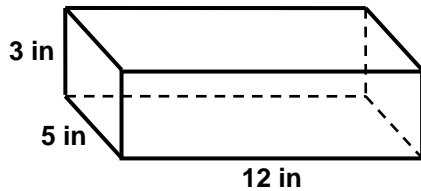
- | | | | |
|---------------------------------------|---------------------------------------|---------------------------|---------------------------|
| <input type="radio"/> 240 | <input type="radio"/> 312 | <input type="radio"/> 276 | <input type="radio"/> 360 |
| <input type="radio"/> ft ³ | <input type="radio"/> ft ² | <input type="radio"/> ft | |



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

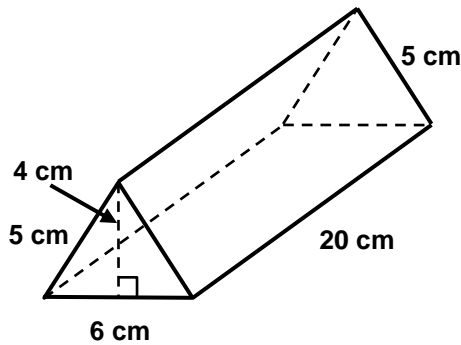
Questions 13-15: Select the correct number and label for each question.

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



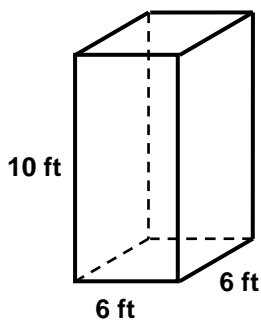
- | | | | |
|---------------------------|---------------------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 222 | <input type="radio"/> 180 | <input type="radio"/> 207 | <input type="radio"/> 192 |
| <input type="radio"/> in | <input type="radio"/> in ² | <input type="radio"/> in ³ | |

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



- | | | | |
|---------------------------------------|---------------------------|---------------------------------------|---------------------------|
| <input type="radio"/> 332 | <input type="radio"/> 240 | <input type="radio"/> 320 | <input type="radio"/> 344 |
| <input type="radio"/> cm ² | <input type="radio"/> cm | <input type="radio"/> cm ³ | |

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



- | | | | |
|---------------------------------------|---------------------------------------|---------------------------|---------------------------|
| <input type="radio"/> 240 | <input type="radio"/> 312 | <input type="radio"/> 276 | <input type="radio"/> 360 |
| <input type="radio"/> ft ³ | <input type="radio"/> ft ² | <input type="radio"/> ft | |



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