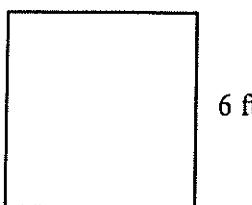


Integrated Math Quiz on Area

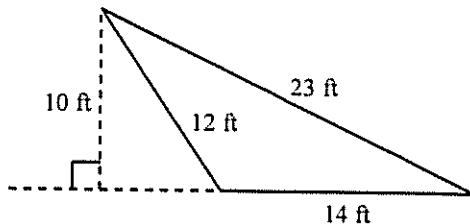
Name: _____ Period: _____

1. Find the area of the square.



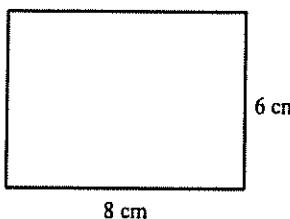
- [A]
- 3 ft^2
- [B]
- 30 ft^2
- [C]
- 36 ft^2
- [D]
- 12 ft^2

5. Find the area of the triangle. The diagram is not to scale.



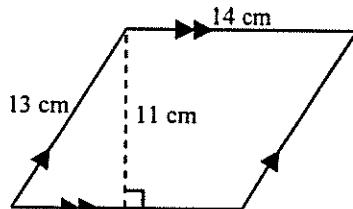
- [A]
- 70 ft^2
- [B]
- 322 ft^2
-
- [C]
- 230 ft^2
- [D]
- 140 ft^2

2. What is the area of the rectangle below?

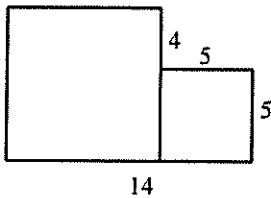


- [A]
- 96 cm^2
- [B]
- 48 cm^2
-
- [C]
- 28 cm^2
- [D]
- 14 cm^2

6. Find the area. The diagram is not to scale.

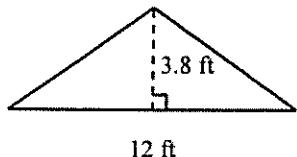


3. Find the area of the polygon made up of rectangles.



- [A]
- 46 ft^2
- [B]
- 14 ft^2
- [C]
- 221 ft^2
- [D]
- 106 ft^2

4. Find the area.

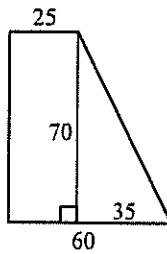


- [A]
- 22.8 ft^2
- [B]
- 15.8 ft^2
-
- [C]
- 45.6 ft^2
- [D]
- 25.4 ft^2

7. A parallelogram has a base of 11 feet and an area of 154 square feet. Find the height.

- [A] 14 ft [B] 7 ft [C] 28 ft [D] 25 ft

8. Which equation could
- not*
- be used to find the area of the trapezoid?

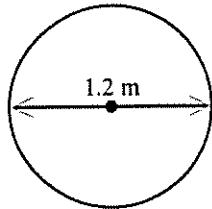


[A] $A = \frac{1}{2}(70)(25+60)$ [B] $A = (25)(70) + \frac{1}{2}(70)(35)$

[C] $A = \frac{1}{2}(60)(25+70)$

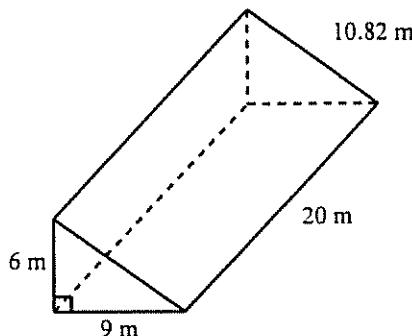
- [D] All of these equations can be used to find the area.

9. Find the area. Use $\pi \approx 3.14$.

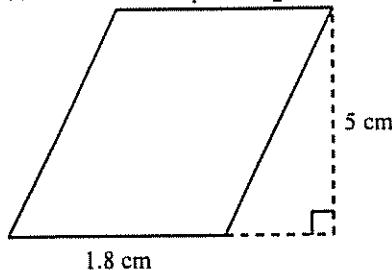


- [A] 4.5216 m^2
 [B] 18.0864 m^2
 [C] 7.536 m^2
 [D] 1.1304 m^2

13. Find the surface area of the right triangular prism. Round to the nearest hundredth, if necessary.



10. Find the area of the parallelogram. The diagram is not to scale.



- [A] 9.54 cm^2
 [B] 9 cm^2
 [C] 26.5 cm^2
 [D] 11.1 cm^2

- [A] 1080.00 m^2
 [B] 570.40 m^2
 [C] 540.00 m^2
 [D] 510.40 m^2

14. The diameter of a circle is given. Find the radius.

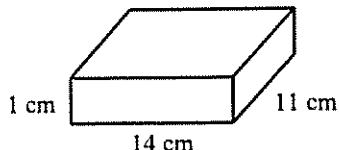
- a. $d = 21 \text{ cm}$
 b. $d = 5.7 \text{ ft}$

- | | |
|--|--|
| [A] a. 10.5 cm
b. 2.85 ft | [B] a. 10.5 cm
b. 11.4 ft |
| [C] a. 42 cm
b. 11.4 ft | [D] a. 42 cm
b. 2.85 ft |

11. A circle has area $36\pi \text{ cm}^2$. What is the radius?

- [A] 6 cm [B] $6\pi \text{ cm}$ [C] $12\pi \text{ cm}$ [D] 12 cm

12. Find the surface area. The diagram is not to scale.



- [A] 154 cm^2
 [B] 208 cm^2
 [C] 358 cm^2
 [D] 319 cm^2