

Project: Triangles and Trigonometry

Exercise 10: Area

Multiple Choice Questions

1. A triangle with a base of 10 cm and a height of 6 cm has an area of 30 cm². If the base is increased to 15 cm and the height is decreased to 4 cm, what is the new area?

(a) 30 cm ²	(b) 45 cm ²
(c) 20 cm ²	(d) 15 cm ²
2. The area of a triangle is 24 cm². If the base is 8 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm
3. The area of a triangle is 36 cm². If the base is 12 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm
4. The area of a triangle is 48 cm². If the base is 16 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm

Find the Area of the Triangle in Each Case



5. A triangle with a base of 10 cm and a height of 6 cm has an area of 30 cm². If the base is increased to 15 cm and the height is decreased to 4 cm, what is the new area?

(a) 30 cm ²	(b) 45 cm ²
(c) 20 cm ²	(d) 15 cm ²
6. The area of a triangle is 24 cm². If the base is 8 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm

Find the Area of the Triangle in Each Case



7. A triangle with a base of 10 cm and a height of 6 cm has an area of 30 cm². If the base is increased to 15 cm and the height is decreased to 4 cm, what is the new area?

(a) 30 cm ²	(b) 45 cm ²
(c) 20 cm ²	(d) 15 cm ²
8. The area of a triangle is 24 cm². If the base is 8 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm
9. The area of a triangle is 36 cm². If the base is 12 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm
10. The area of a triangle is 48 cm². If the base is 16 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm
11. A triangle with a base of 10 cm and a height of 6 cm has an area of 30 cm². If the base is increased to 15 cm and the height is decreased to 4 cm, what is the new area?

(a) 30 cm ²	(b) 45 cm ²
(c) 20 cm ²	(d) 15 cm ²
12. The area of a triangle is 24 cm². If the base is 8 cm, what is the height?

(a) 3 cm	(b) 6 cm
(c) 9 cm	(d) 12 cm

Holt Mcdougal Geometry Lesson 8 1 Resource Book

Judith A. Muschla, Gary Robert Muschla



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