Mathematics Practice — Rectangle area

Grade 5 • Mathematics

Name : _____ Date : _____

Instructions: Answer all questions. Show your work where indicated. Good luck!

Part A: Foundational Questions

1. A rectangle has length 5 cm and width 5 cm. Find its area in $cm^{2.}$

A) 26

B) 27

C) 28

D) 25

2. A rectangle has area 44 cm^2 and length 4 cm. Find its width in cm.

A) 11

B) 12

C) 13

D) 14

3. A rectangle has length 2 cm. Its width increases from 9 cm to 12 cm. By how many cm^2 does its area increase?

A) 6

B) 7

C) 8

D) 9

Part B: Application Questions

4. A rectangle has area 55 cm^2 and length 5 cm. Find its width in cm.

5. A rectangle has area 77 cm^2 and length 11 cm. Find its width in cm.

6. A rectangle has length 5 cm. Its width increases from 9 cm to 14 cm. By how many cm^2 does its area increase?

Part C: Challenge Questions

7. A rectangle has length 6 cm. Its width increases from 4 cm to 8 cm. By how many cm^2 does its area increase?

A) 24

B) 25

C) 26

D) 27

8. A rectangle has length 9 cm. Its width increases from 2 cm to 5 cm. By how many cm^2 does its area increase?

A) 30

B) 27

C) 28

D) 29

9. A rectangle has area 176 cm^2 and length 16 cm. Find its width in cm.

A) 11

B) 12

C) 13

D) 14

Answer Key

Part A: Foundational Questions

1. 25

Solution : 5 x 5 = 25.

2. 11

Solution : $\frac{44}{4}$ = 11 cm.

3. 6

Solution : 2 x (12-9) = 6 $cm^{2.}$

Part B: Application Questions

4. 11

Solution : $\frac{55}{5}$ = 11 cm.

5. 7

Solution : $\frac{77}{11}$ = 7 cm.

6. 25

Solution : 5 x (14-9) = 25 $cm^{2.}$

Part C: Challenge Questions

7. 24

Solution : 6 x (8-4) = 24 $cm^{2.}$

8. 27

Solution : 9 x (5-2) = 27 $cm^{2.}$

9. 11

Solution : $\frac{176}{16}$ = 11 cm.