Mathematics Practice — Rectangle area

Grade 6 • Mathematics

Name : _____ Date : _____

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

Part A: Foundational Questions

1. A rectangle has area 48 cm^2 and length 6 cm. Find its width in cm.

A) 10

B) 11

C) 8

D) 9

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

A) 24

B) 25

C) 26

D) 27

3. A rectangle has area 18 cm^2 and length 9 cm. Find its width in cm.

A) 4

B) 5

C) 2

D) 3

Part B: Application Questions

4. A rectangle has length 7 cm and width 7 cm. Find its area in $cm^{2.}$

5. A rectangle has area 16 cm^2 and length 8 cm. Find its width in cm.

6. A rectangle has length 6 cm and width 5 cm. Find its area in $cm^{2.}$

Part C: Challenge Questions

7. A rectangle has length 26 cm. Its width increases from 7 cm to 16 cm. By how many cm^2 does its area increase?

A) 234

B) 235

C) 236

D) 237

8. A rectangle has length 33 cm. Its width increases from 6 cm to 12 cm. By how many cm^2 does its area increase?

A) 201

B) 198

C) 199

D) 200

9. A rectangle has length 19 cm and width 8 cm. Find its area in $cm^{2.}$

A) 154

B) 155

C) 152

D) 153

Answer Key

Part A: Foundational Questions

1. 8

Solution : $\frac{48}{6}$ = 8 cm.

2. 24

Solution : 6 x (9-5) = 24 $cm^{2.}$

3. 2

Solution : $\frac{18}{9}$ = 2 cm.

Part B: Application Questions

4. 49

Solution : 7 x 7 = 49.

5. 2

Solution : $\frac{16}{8}$ = 2 cm.

6. 30

Solution : 6 x 5 = 30.

Part C: Challenge Questions

7. 234

Solution : 26 x (16-7) = 234 $cm^{2.}$

8. 198

Solution : 33 x (12-6) = 198 $cm^{2.}$

9. 152

Solution : 19 x 8 = 152.