GRE Arithmetic Practice Test 9

Question 1

Reduce.

$$\sqrt{72}$$

Possible Answers:

$2\sqrt{21}$

$36\sqrt{2}$

$4\sqrt{36}$

$2\sqrt{6}$

$6\sqrt{2}$

✓ Correct answer:

$6\sqrt{2}$

Question 2

Which quantity is greater: $\sqrt{900}$ **or** 30?

Possible Answers:

Not enough information to determine the relationship between these two quantities.

$30 < \sqrt{900}$

$30 > \sqrt{900}$

$\sqrt{900} = 30$

$\sqrt{900} = \pm30$

✓ Correct answer:

$\sqrt{900} = \pm30$

Question 3

Reduce.

$$\sqrt{32}$$

Possible Answers:

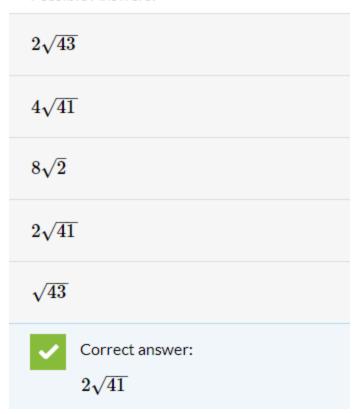$2\sqrt{2}$

$4\sqrt{2}$

$8\sqrt{2}$

$16\sqrt{2}$

$\sqrt{4}$

✓ Correct answer:

$4\sqrt{2}$

Question 4

Find the square root of 164.

Possible Answers:

$2\sqrt{43}$

$4\sqrt{41}$

$8\sqrt{2}$

$2\sqrt{41}$

$\sqrt{43}$

✓ Correct answer:

$2\sqrt{41}$

Question 5

Reduce.

$$\sqrt{192}$$

Possible Answers:

$64\sqrt{3}$

$4\sqrt{3}$

$64\sqrt{4}$

$8\sqrt{3}$

$3\sqrt{4}$

✓ Correct answer:

$8\sqrt{3}$

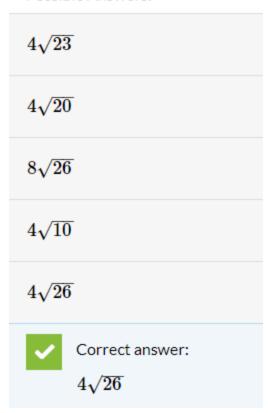**Question 6**

Reduce.

$$\sqrt{368}$$

Possible Answers:

$16\sqrt{23}$

$6\sqrt{2}$

$2\sqrt{23}$

$\sqrt{2}\sqrt{36}$

$4\sqrt{23}$

✓ Correct answer:

$4\sqrt{23}$

Question 7

Find the square root of 416.

Possible Answers:

$4\sqrt{23}$

$4\sqrt{20}$

$8\sqrt{26}$

$4\sqrt{10}$

$4\sqrt{26}$

✓ Correct answer:

$4\sqrt{26}$

Question 8

Simplify the following: $(\sqrt{6} + \sqrt{3}) / \sqrt{3}$

Possible Answers:

$3\sqrt{2}$

$\sqrt{2} + 1$

None of the other answers

$\sqrt{3}$

1

✓ Correct answer:

$\sqrt{2} + 1$

Question 9

what is

$\sqrt{0.0000490}$

Possible Answers:

49

0.007

0.00007

0.07

7

✅ Correct answer:

0.007

Question 10

Simplify: $\sqrt{576}$

Possible Answers:

24

$12\sqrt{6}$

34

$10\sqrt{12}$

$12\sqrt{3}$

✓ Correct answer:

24