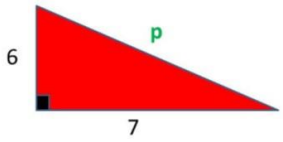
New Maths GCSE: G20 - Pythagoras Calculations

Name:..... Date:.....



Which of these would correctly work out the missing length?

A $p = 7 + 6$

B $p = 7^2 + 6^2$

C $p = \sqrt{7^2 - 6^2}$

D $p = \sqrt{7^2 + 6^2}$

Correct Answer: A B C D

Explanation:

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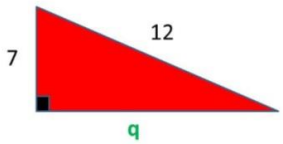

Which of these would correctly work out the missing length?

A $q = \sqrt{7^2 - 12^2}$

B $q = 12^2 - 7^2$

C $q = \sqrt{12^2 - 7^2}$

D $q = \sqrt{12^2 + 7^2}$

Correct Answer: A B C D

Explanation:

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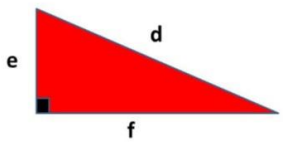

Which of these is the correct relationship between the sides

A $d = \sqrt{e^2 - f^2}$

B $d = e^2 + f^2$

C $d = e + f$

D $d^2 = e^2 + f^2$

Correct Answer: A B C D

Explanation:

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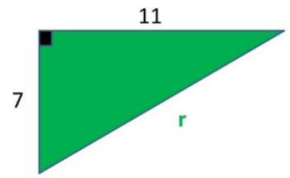

Which of these would correctly work out the missing length?

A $r = \sqrt{11^2 - 7^2}$ B $r = \sqrt{11^2 + 7^2}$

C $r = 11^2 + 7^2$ D $r = 11 + 7$

Correct Answer: A B C D

Explanation:

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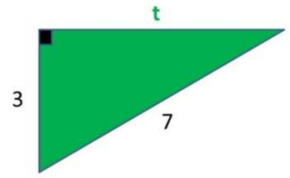

Which of these would correctly work out the missing length?

A $t = \sqrt{7^2 - 3^2}$ B $t = \sqrt{7^2 + 3^2}$

C $t = 7^2 - 3^2$ D $t = \sqrt{3^2 - 7^2}$

Correct Answer: A B C D

Explanation:

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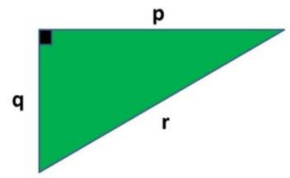

Which of these is the correct relationship between the sides

A $p = r^2 - q^2$ B $p = q^2 + r^2$

C $p^2 = q^2 - r^2$ D $p^2 = r^2 - q^2$

Correct Answer: A B C D

Explanation:

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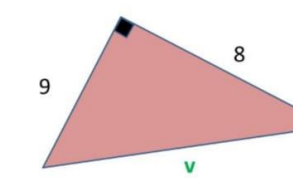

Which of these would correctly work out the missing length?

A $v = \sqrt{9^2 - 8^2}$ B $v^2 = 9 + 8$

C $v = 9^2 + 8^2$ D $v = \sqrt{9^2 + 8^2}$

Correct Answer: A B C D

Explanation:

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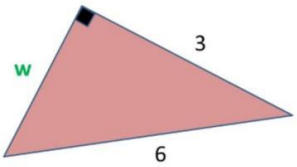

Which of these would correctly work out the missing length?

A $w = \sqrt{6^2 - 3^2}$

B $w = \sqrt{3^2 - 6^2}$

C $w = 6^2 - 3^2$

D $w = \sqrt{6^2 + 3^2}$

Correct Answer: A B C D

Explanation:

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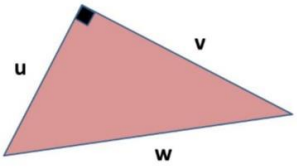

Which of these is the correct relationship between the sides

A $w = \sqrt{u + v}$

B $w = \sqrt{u^2 - v^2}$

C $w^2 = u + v$

D $w = \sqrt{u^2 + v^2}$

Correct Answer: A B C D

Explanation:

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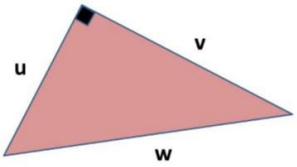

Which of these is the correct relationship between the sides

A $v = \sqrt{w - u}$

B $v = \sqrt{w^2 - u^2}$

C $v^2 = w - u$

D $v = \sqrt{u^2 - w^2}$

Correct Answer: A B C D

Explanation:

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