New Maths GCSE: R13 - Direct and Inverse Proportion Equations

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

m is inversely proportional to p

Which of these is a correct statement?

A) $m = kp$ B) $p = km$

C) $m = \frac{k}{p}$ D) $m = \frac{1}{kp}$

Correct Answer: A B C D

Explanation:

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t is proportional to the square of g

Which of these is a correct statement?

A) $t = kg^2$ B) $g = kt^2$

C) $t = k\sqrt{g}$ D) $t = \frac{k}{g^2}$

Correct Answer: A B C D

Explanation:

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d is proportional to the cube of p

Which of these is a correct statement?

A) $d = 3kp$ B) $d = kp^3$

C) $p = \frac{k}{d^3}$ D) $d = \frac{k}{p^3}$

Correct Answer: A B C D

Explanation:

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y is inversely proportional to the square of x

Which of these is a correct statement?

A) $y = \frac{k}{x^2}$ B) $y = kx^2$

C) $y = \frac{1}{kx^2}$ D) $y = \frac{k}{\sqrt{x}}$

Correct Answer: A B C D

Explanation:

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p is inversely proportional to the square root of q

Which of these is a correct statement?

A) $p = \frac{k}{q^2}$ B) $p = kq^2$

C) $p = \frac{1}{k\sqrt{q}}$ D) $p = \frac{k}{\sqrt{q}}$

Correct Answer: A B C D

Explanation:

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v is inversely proportional to the square of w

Which of these is a correct statement?

A) $v = \frac{1}{kw^2}$ B) $v = -kw^2$

C) $v = \frac{k}{w^2}$ D) $v = \frac{k}{\sqrt{w}}$

Correct Answer: A B C D

Explanation:

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