Worksheet

12/11/2019

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Problem quickname: 9445

1)

Which of these statements are true?

a)
√ Every square is a parallelogram
× Every parallelogram is a triangle
√ Every rectangle is a parallelogram
× Every rhombus is an ellipse
(Two statements are correct)

b)
√ Every square is a parallelogram
× Every triangle is an ellipse
√ Every rhombus is a parallelogram
× Every rectangle is a square
(Two statements are correct)

c)
× Every rhombus is a triangle
√ Every square is a rectangle
√ Every rhombus is a parallelogram
× Every square is an ellipse
(Two statements are correct)

d)
× Every square is an ellipse
× Every square is a triangle
× Every triangle is a rhombus
√ Every square is a parallelogram
(One statement is correct)

e)
× Every triangle is a square
× Every square is a triangle
× Every triangle is a parallelogram
√ Every square is a parallelogram
(One statement is correct)

f)
× Every square is a triangle
× Every triangle is a square
× Every ellipse is a rectangle
√ Every square is a rhombus
(One statement is correct)

2)

Which of these statements are true?

a)
× Every ellipse is a square
√ Every square is a rectangle
× Every rectangle is a square

b)
× Every square is an ellipse
× Every rectangle is a square
√ Every square is a rectangle

c)
× Every square is an ellipse
√ Every square is a rectangle
× Every ellipse is a square

d)
× Every rectangle is a square
√ Every square is a rectangle
× Every square is an ellipse

3)

Which of these statements are true?

a)
× Every trapezoid is a rhombus
√ Every rhombus is a trapezoid
× Every rhombus is a triangle
√ Every rhombus is a parallelogram
(Two statements are correct)

b)
× Every triangle is a trapezoid
√ Every rhombus is a trapezoid
× Every parallelogram is a rhombus
× Every trapezoid is a parallelogram
(One statement is correct)

c) ✗ Every trapezoid is a rhombus
    ✓ Every rhombus is a trapezoid
    ✗ Every parallelogram is a rhombus
    ✓ Every parallelogram is a trapezoid
    (Two statements are correct)

d) ✗ Every parallelogram is a rhombus
    ✗ Every trapezoid is a parallelogram
    ✓ Every rhombus is a parallelogram
    ✗ Every triangle is a rhombus
    (One statement is correct)

e) ✓ Every rhombus is a trapezoid
    ✓ Every rhombus is a parallelogram
    ✗ Every parallelogram is a triangle
    ✗ Every parallelogram is a rhombus
    (Two statements are correct)

f) ✗ Every rhombus is a triangle
    ✓ Every parallelogram is a trapezoid
    ✗ Every parallelogram is a rhombus
    ✓ Every rhombus is a trapezoid
    (Two statements are correct)

4)

Which of these statements are true? There may be more than one.

a) ✗ Every square is an ellipse
    ✗ Every triangle is a square
    ✗ Every square is a circle
    ✓ Every square is a rectangle

b) ✗ Every square is a triangle
    ✓ Every circle is an ellipse
    ✗ Every circle is a square
    ✗ Every ellipse is a triangle

Good Luck!