# Worksheet

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Problem quickname: 9445

## 1)

Which of these statements are true?

a)
$\times$ Every circle is a trapezoid
$\times$ Every square is a circle
$\times$ Every triangle is a trapezoid
$\checkmark$ Every square is a trapezoid
(One statement is correct)

b)
$\times$ Every parallelogram is a circle
$\times$ Every rectangle is a triangle
$\checkmark$ Every parallelogram is a trapezoid
$\checkmark$ Every square is a rhombus
(Two statements are correct)

c)
$\times$ Every trapezoid is an ellipse
$\checkmark$ Every circle is an ellipse
$\times$ Every parallelogram is a circle
$\times$ Every circle is a triangle
(One statement is correct)

d)
$\checkmark$ Every parallelogram is a trapezoid
$\times$ Every circle is a square
$\checkmark$ Every square is a trapezoid
$\checkmark$ Every circle is an ellipse
(Three statements are correct)

e)
$\times$ Every ellipse is a trapezoid
$\times$ Every parallelogram is a circle
$\checkmark$ Every square is a parallelogram
$\times$ Every rectangle is a rhombus
(One statement is correct)

f)
$\times$ Every parallelogram is an ellipse
$\checkmark$ Every square is a parallelogram
$\times$ Every triangle is a circle
$\checkmark$ Every parallelogram is a trapezoid
(Two statements are correct)

## 2)

Which of these statements are true?

a)
$\times$ Every rectangle is a square
$\checkmark$ Every square is a rectangle
$\times$ Every square is a circle
$\times$ Every rectangle is a circle

b)
$\times$ Every rectangle is a circle
$\checkmark$ Every square is a rectangle
$\times$ Every square is a circle
$\times$ Every ellipse is a circle

c)
$\times$ Every square is a circle
$\checkmark$ Every square is a rectangle
$\times$ Every circle is a square
$\times$ Every ellipse is a circle

d)
$\times$ Every square is a circle
$\checkmark$ Every circle is an ellipse
$\times$ Every circle is a square
$\times$ Every rectangle is a circle

## 3)

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

a)
$\times$ Every triangle is a rhombus
$\checkmark$ Every square is a rectangle
$\times$ Every rectangle is a triangle
$\times$ Every parallelogram is a rectangle

b)
$\times$ Every square is a triangle
$\checkmark$ Every rhombus is a parallelogram
$\checkmark$ Every rectangle is a parallelogram
$\times$ Every parallelogram is a triangle

c)  √ Every square is a rectangle
    × Every parallelogram is a triangle
    × Every triangle is a parallelogram
    √ Every rhombus is a parallelogram

d)  × Every parallelogram is a triangle
    √ Every square is a rectangle
    × Every triangle is a square
    √ Every rectangle is a parallelogram

## 4)

## Which of these statements are true?

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

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

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

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

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

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

# Good Luck!