

Name:

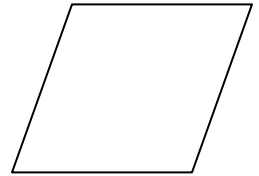
## QUIZ 21 – MATH GRADE 9

1. (5%) Name all the quadrilaterals with 2 pairs of parallel lines.
2. (15%) True or False
  - a. Every square is a parallelogram, trapezoid and rectangle (True / False)
  - b. Every parallelogram is a square (True / False)
  - c. Every Rhombus is a Parallelogram (True / False)
  - d. Every Trapezoid is a Parallelogram (True / False)
  - e. Every Rectangle is a Trapezoid (True / False)

3. (10%) Sketch and find the missing part in the figure:

Area = 40 cm, Base = 8 cm, Height = \_\_\_\_\_

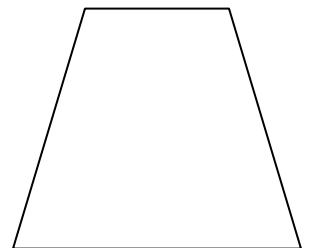
Can the side length be calculated? explain



4. (10%) Sketch and find the missing part in the isosceles trapezoid:

Area = 42 cm, Base1 = 9 cm, Base2 = 5 cm, Height = \_\_\_\_\_

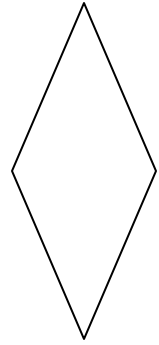
Side length: \_\_\_\_\_



5. (10%) Sketch and find the missing part in the figure:

Area = 72 cm, Diagonal 1 = 9 cm, Diagonal 2 = \_\_\_\_\_

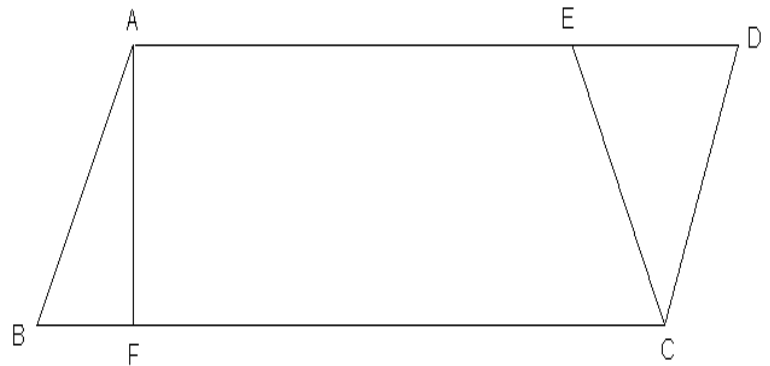
Side length: \_\_\_\_\_



6. (20%) Sketch an isosceles trapezoid whose area is  $20 \text{ cm}^2$  and find its perimeter.

7. (30%) Given that ABCD is a parallelogram, AB = 10 cm, BC = 20 cm, FC = 14 cm, EC = DC, diagram not to scale, find:

- a. (10%) The area of the parallelogram ABCD



- b. (10%) The perimeter of the trapezoid AFCE

- c. (10%) The area of the trapezoid AFCE