MINISTRY OF EDUCATION

BADAA AL MUTAWA SCHOOL

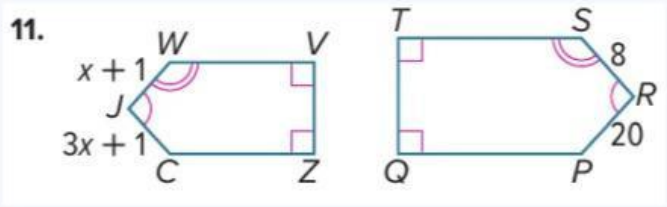
MATHEMATICS • M3L2 – Similar Polygons

Student Name: _____	**Subject: Mathematics**
Grade: _____	**Subject Teacher: Abdulkader Amro**
Date: _____	Assessment Type: Multiple Choice

Instructions: Choose the one correct answer for each question. Use the diagrams where provided.

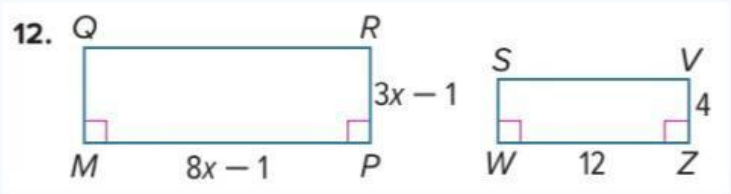
SECTION A • SIMILAR POLYGONS

1. Each pair of polygons is similar. Find the value of x. [Source Q11]



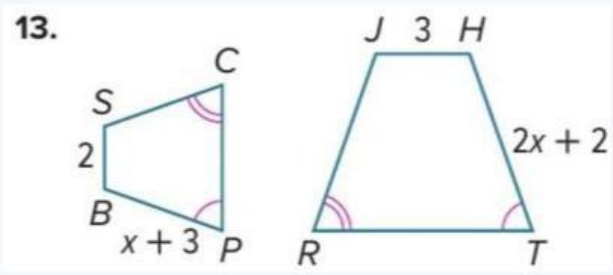
A. 2
B. 4
C. 3
D. 5

2. Each pair of polygons is similar. Find the value of x. [Source Q12]



A. 2
B. 3
C. 1
D. 4

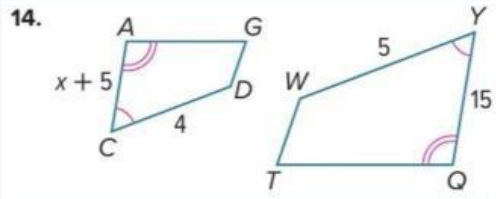
3. Each pair of polygons is similar. Find the value of x. [Source Q13]



A. 4
B. 5
C. 6
D. 7

LIVEWORKSHEETS

4. Each pair of polygons is similar. Find the value of x. [Source Q14]



A. 6
B. 7
C. 8
D. 9

5. GAMING — On a map, home to the health food store is 2 cm, the health food store to the first dungeon is 8 cm, and the first dungeon to home is 7 cm. If the actual health-food-store-to-dungeon distance is 4 km, how far will the character travel to visit all three destinations? [Source Q15]

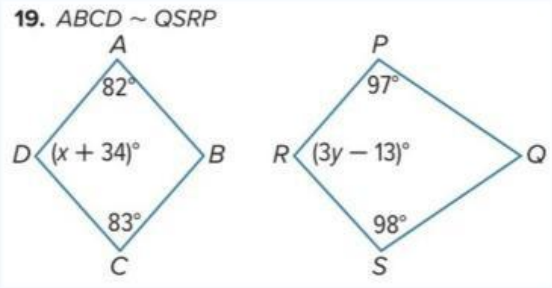
A. 7.5 km
B. 8 km
C. 8.5 km
D. 9 km

6. LAWN CARE — Nayeli's rectangular lawn has a perimeter of 126 meters. The ratio of length to width is 5:2. What is the width of Nayeli's lawn? [Source Q16]

A. 18 m
B. 15 m
C. 20 m
D. 21 m

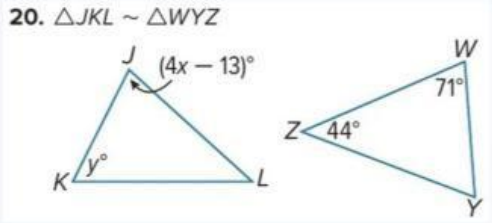
SECTION B • FIND x AND y IN SIMILAR FIGURES

7. ABCD ~ QSRP. Find the values of x and y. [Source Q19]



A. x = 63, y = 31
B. x = 61, y = 32
C. x = 63, y = 30
D. x = 63, y = 32

8. △JKL ~ △WYZ. Find the values of x and y. [Source Q20]

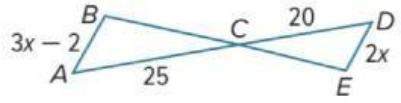


A. x = 20, y = 65
B. x = 21, y = 65
C. x = 21, y = 64
D. x = 22, y = 65

LIVEWORKSHEETS

9. If △ABC ~ △DEC, find x and the scale factor from △DEC to △ABC. [Source Q22]

22. If $\triangle ABC \sim \triangle DEC$, find the value of x and the scale factor from $\triangle DEC$ to $\triangle ABC$.



A. x = 4; scale factor = 5/4
B. x = 3; scale factor = 4/5
C. x = 4; scale factor = 4/5
D. x = 5; scale factor = 5/4

10. Rectangle ABCD ~ rectangle EFGH. The perimeter of ABCD is 54 cm and the perimeter of EFGH is 36 cm. What is the scale factor from EFGH to ABCD? [Source Q23]

A. 2/3
B. 4/3
C. 3/2
D. 5/3

LIVEWORKSHEETS