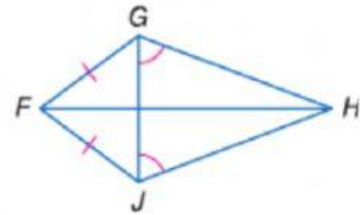


## Grade 9 Advance Term 3 Revision

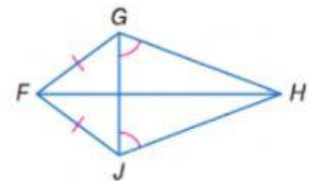
1. Name the 2 unmarked congruent angles:

- i) Angle FGJ and angle FJG
- ii) FG and FJ
- iii) Angle F and angle H
- iv) No angles



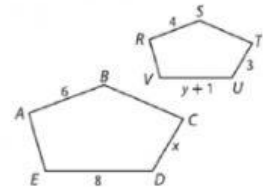
2. Name 2 unmarked congruent sides:

- i) FG and FJ
- ii) GH and JH
- iii) FH and GJ
- iv) No answer



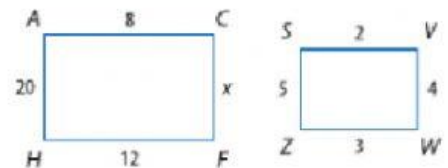
3. Find the value of  $x$  &  $y$

- i)  $X = 4.5, y = 13/3$
- ii)  $X = 5, y = 4$
- iii)  $X = 5.4, y = 13$
- iv)  $X = 6, y = 12/7$



4. Find the value of  $x$  if both polygons are similar:

- i) 0
- ii) 16
- iii)  $1/16$
- iv) Cant be calculated



## Grade 9 Advance Term 3 Revision

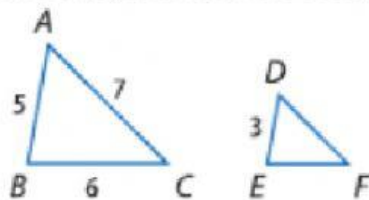
5. Two similar rectangles have a scale factor of 2 :4. The perimeter of large rectangle is 80 meters. Find the perimeter of small rectangle.

- i) 100
- ii) 80
- iii) 20
- iv) 40

6. If the total distance between 3rd avenue and city mall is 3201 feet, find the distance between 5th avenue and city mall.



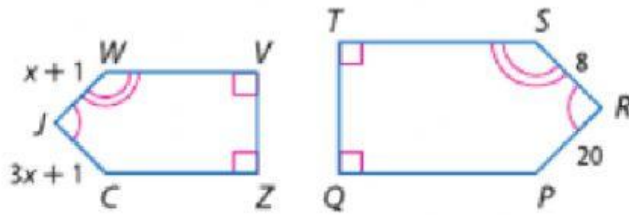
- i) 1569.5 ft
  - ii) 2000 ft
  - iii) 2360.3 ft
  - iv) 3678 ft
7. Find the perimeter of  $\triangle DEF$ , if  $\triangle ABC \sim \triangle DEF$ ,  $AB = 5$ ,  $BC = 6$ ,  $AC = 7$  and  $DE = 3$ :



- i) 14
- ii) 12.8
- iii) 10.8
- iv) 11

## Grade 9 Advance Term 3 Revision

8. Find the value of  $x$  if the polygons are similar:



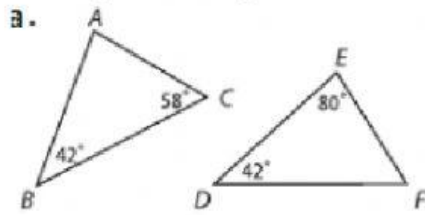
- i) 7
  - ii) 6
  - iii) 8
  - iv) 3
9. Solve the given proportion:

$$\frac{a+2}{a-2} = \frac{3}{2}$$

- i) 20
  - ii) 10
  - iii) 5
  - iv) 8
10. Nabila randomly surveyed 30 students from her class and found that 18 had a pet. If there are 870 students in her school, predict the total number of students with a pet.
- i) 245
  - ii) 670
  - iii) 522
  - iv) 578

## Grade 9 Advance Term 3 Revision

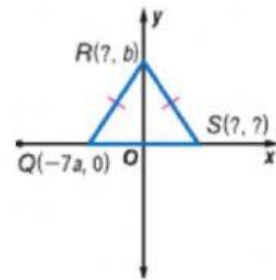
11. Identify the rule by which the triangles are similar :



- i) AA similarity
- ii) SAS similarity
- iii) SSS similarity
- iv) Triangles are not similar

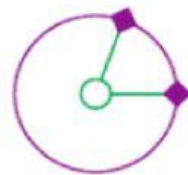
12. Identify the missing coordinates for the figure

- i) S  $(-7a, 0)$  & R  $(b, b)$
- ii) S  $(7a, 0)$  & R  $(0, b)$
- iii) S  $(0, 0)$  & R  $(0, b)$
- iv) S  $(0, -7a)$  & R  $(b, 0)$



13. Identify the type of transformation in the given figure

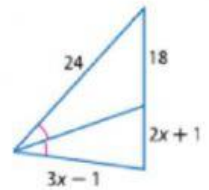
- i) Rotation
- ii) Reflection
- iii) Translation
- iv) No transformation



## Grade 9 Advance Term 3 Revision

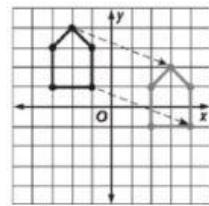
14. Find the value of  $x$ :

- i) 7
- ii) 8
- iii) 9
- iv) 6



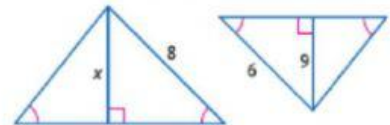
15. Identify the type of transformation in the given figure

- i) Translation
- ii) Rotation
- iii) Reflection
- iv) No transformation



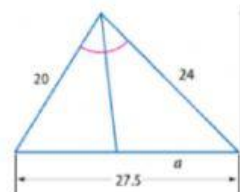
16. Find the value of  $x$  if the 2 triangles are similar:

- i) 10
- ii) 15
- iii) 14
- iv) 12



17. Find the value of  $a$ :

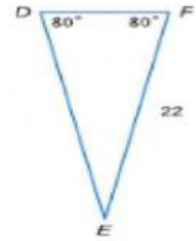
- i) 13
- ii) 14
- iii) 15
- iv) 16



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18. Identify the correct measure of DE:

- i) 10
- ii) 22
- iii) 15
- iv) 6



19. In an isosceles triangle ABC, measure of vertex angle is 80, find the measure of each base angles

- i) 120
- ii) 50
- iii) 80
- iv) 55

20. In the figure,  $\triangle LJK \sim \triangle SQR$ . Find the value of x

- i) 7
- ii) 6.5
- iii) 7.5
- iv) 4.9

