Grade 9 Advance Mathematics - Revision

Chapter 15

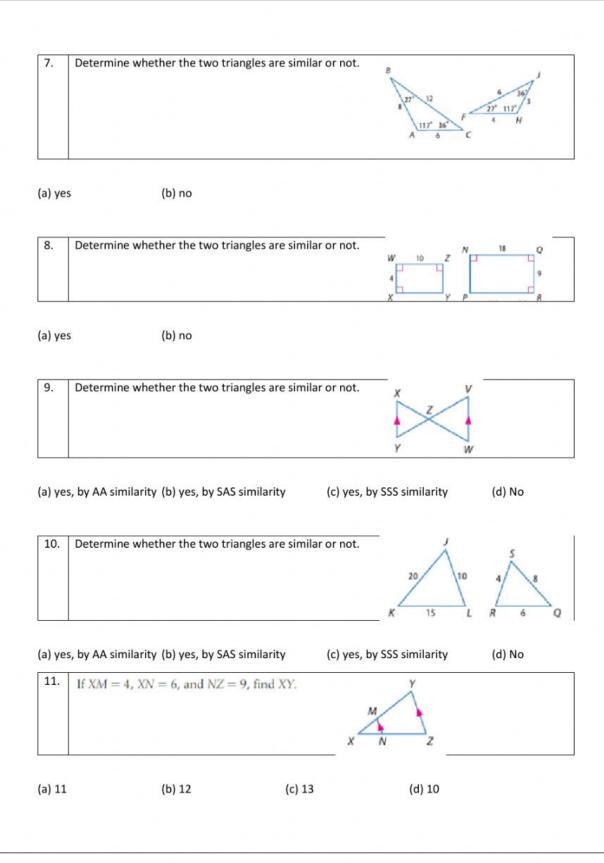
Answer all the questions

1.	Thirty girls tried out for 15 spots on the basketball team. What is the ratio of open spots to the
	number of girls competing?

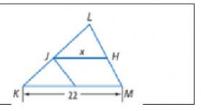
- (a) 1:1
- (b) 1:2
- (c) 2:1
- (d) 2:2
- 2. The ratio of the measures of three sides of a triangle is 2 : 5 : 4 and its perimeter is 165 units. Find the measure of each side of the triangle.
- (a) 40, 75, 60
- (b) 20, 75, 60
- (c) 30, 75, 60
- (d) 40, 75, 20
- The ratio of the measures of three sides of a triangle are 4:6:8. Find the measure of each angle
 of the triangle.
- (a) 40, 75, 60
- (b) 40, 60, 80
- (c) 30, 75, 60
- (d) 40, 75, 20

- 4. Solve the proportion $\frac{2}{3} = \frac{x}{24}$.
- (a) 80
- (b) 5
- (c) 22
- (d) 16

- 5. Solve the proportion $\frac{x-3}{3} = \frac{5}{8}$.
- (a) 80.2
- (b) 4.875
- (c) 22.34
- (d) 16.25
- 6. Halima is baking apple muffins for the student council bake sale. The recipe that she is using calls for 2 eggs per dozen muffins and she needs to make 108 muffins. How many eggs will she need?
- (a) 80
- (b) 5
- (c) 18
- (d) 16







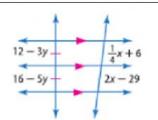
(a) 11

(b) 12

(c) 13

(d) 10

13. Find x and y.



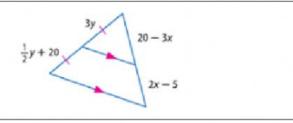
(a) x = 11, y = 2

(b) x = 10, y = 2

(c) x = 11, y = 21

(d) x = 1, y = 2

14. Find x and y.



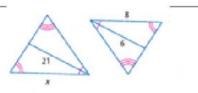
(a) x = 11, y = 2

(b) x = 10, y = 2

(c) x = 5, y = 8

(d) x = 1, y = 2

15. Find x.

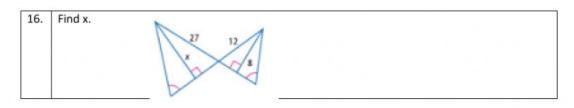


(a) x = 11

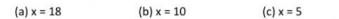
(b) x = 10

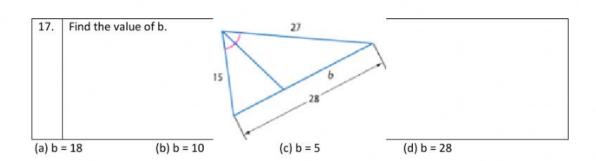
(c) x = 5

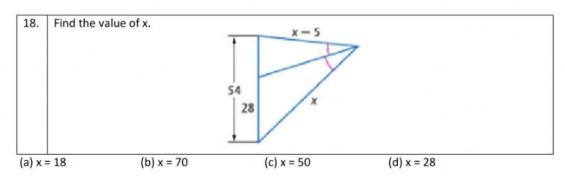
(d) x = 28

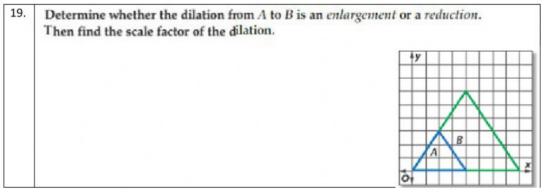


(d) x = 28









(a) enlargement, 3 (b) enlargement, 2 (c) reduction, 3 (d) reduction, 2

Determine whether the dilation from A to B is an enlargement or a reduction.

Then find the scale factor of the dilation.

- (a) enlargement, 3
- (b) enlargement, 2
- (c) reduction, 3
- (d) reduction, 1/3