NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A

Affiliated to CBSE – New Delhi, Affiliation No. 5730008

TERM-3/EVALUATION 3- March, 2022-23

WORKSHEET -13&18

GRADE: 7

SUBJECT: MATHEMATICS

---

1. Choose if True or False.

A. The sum of the measures of all sides of a triangle is always 180 cm.

B. The sum of two sides of a triangle is always greater than the third side.

C. The sum of the two sides of a triangle is always less than the third.

2. Can a triangle be constructed with lengths of three sides as 5 cm, 11 cm, and 4 cm? Give a reason to explain why.

3.Choose if True or False.

A. The product of a number and its additive inverse is 1.

B. The sum of a number and its additive inverse is 0.

4.What number should be subtracted from -0.6 to get $-1\frac{1}{6}$

5. What number should be added to $-\frac{5}{8}$ to get -2.3

6.Choose if True or False.

a. The additive inverse of (–7.63) is (7.63).

A. False
B. True

b. $(\frac{3}{4})$ is the additive inverse of $(\frac{4}{3})$.

A. False
B. True

7. Choose if True or False.

a. The multiplicative inverse of $(-\frac{14}{17})$ is $(\frac{17}{14})$.

A. True
B. False

b. $(\frac{8}{9})$ is the multiplicative inverse of $(1\frac{1}{8})$.

A. False
B. True

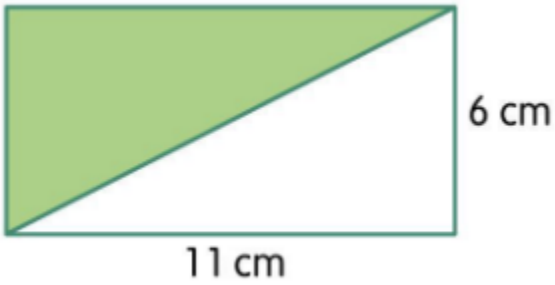
Solve the following:

8) Solve

$(2\frac{7}{12}) \times (-4\frac{3}{4})$

$(-35.25) \div (-11\frac{3}{4})$

9) Find the area of the shaded region enclosed in the rectangle



10) Add or subtract the rational numbers

a. $7.3 + (-4\frac{1}{2})$

b. $(-8) + (-\frac{8}{10})$

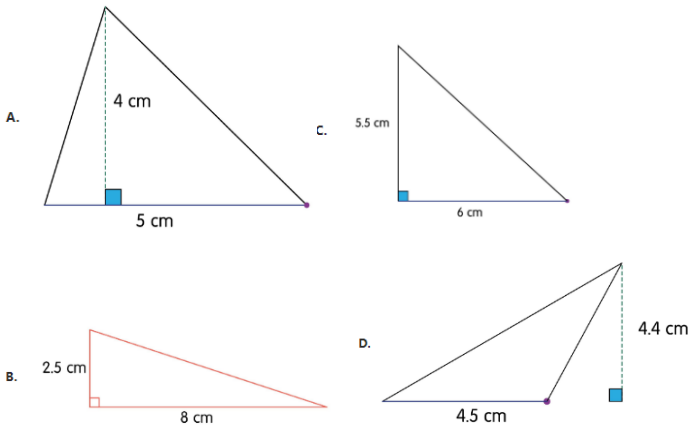
c. $(-5\frac{3}{10}) - (7\frac{1}{2})$

11) Construct triangles with the given measurements.

ΔXYZ where $\angle X = 70°$, $\angle Z = 40°$, and XZ = 2.2 cm

12) The bottom of a water tank is triangular, with a base of 512 cm and height = 300 cm. It is covered with tiles that cost $7.8 per sq. m. Find the total cost incurred in the tiling.

13) Choose the triangles that have the same area.



14) Choose the correct length of the sides that we can use to construct a triangle.

A. PQ = 3 cm, QR = 4 cm, PR = 8 cm
B. AB = 6 cm, BC = 3 cm, CA = 9 cm
C. QR= 5, PQ = 3 cm, PR = 3.5 cm
D. PQ = 3 cm, PR = 2 cm, QR = 6 cm

15) Match each expression with its correct answer.

Options	Answers
A. $(-4\frac{2}{4}) \times (-2.5)$	$1\frac{8}{10}$
B. $4\frac{2}{4} \div 2.5$	$11\frac{1}{4}$
C. $4\frac{2}{4} + 2.5$	7
D. $-4\frac{2}{4} - 2.5$	–7

16) Find the area of a triangle with a height of 6 cm and base measurement of 24cm.

17) Arrange the steps of construction in the correct order to get $\triangle MNO$ where MN = 4 cm, $\angle\angle N = 60°$, and NO = 4.4 cm.

A.Draw an arc of 4 cm from N intersecting the arm of the angle at M.

B.Join M and O to get the triangle.

C.Draw a line segment of length 4.4 cm and label it as NO.

D.Draw an angle of 60° at vertex N, and extend the ray.

XXXXXXXXXXXXXXXXXXXXX