



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

Affiliated to CBSE – New Delhi, Affiliation No. 5730008

WORKSHEET-2

Grade -7ANNUAL EXAMINATION (2020-2021)

Subject: Mathematics

BLOCK-15 :congruence of triangles

1. Fill in the blanks

- a) Two line segments are congruent if -----.
- b) Among two congruent angles, one has a measure of 80° , the measure of other angle is -----
- c) When we write $\angle P = \angle Q$ we actually mean -----

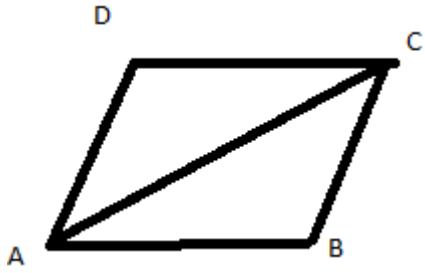
2. True or False

- a) The congruent figures superimpose each other.
- b) The top and bottom faces of kaleidoscope are congruent.
- c) Acute angles are congruent.
- d) Right angles are congruent.
- e) Figures having same shapes are congruent.
- f) If three angles of two triangles are equal, then they are congruent
- g) If two triangles are congruent, then their corresponding angles are equal
- h) All equilateral triangles are congruent.

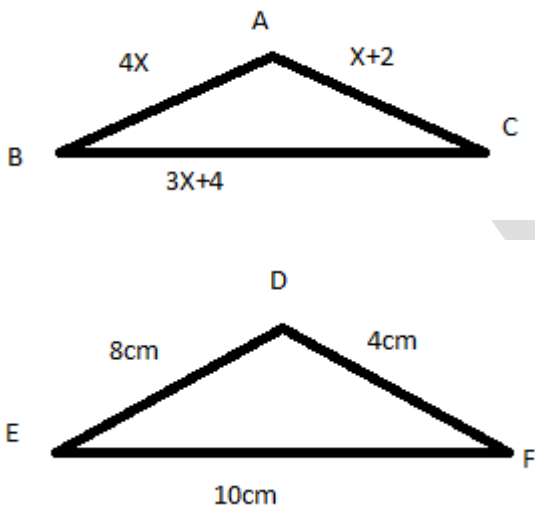
3. Give any two real life examples for congruent shapes.

4. ABCD is a parallelogram, prove that $\triangle ABC \cong \triangle CDA$

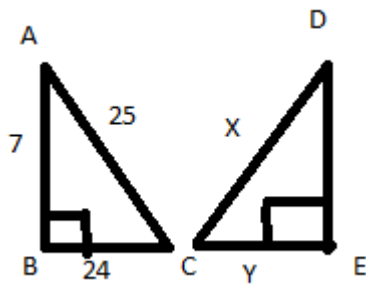




5. In given figure find value of x
 If $\triangle ABC \cong \triangle DEF$



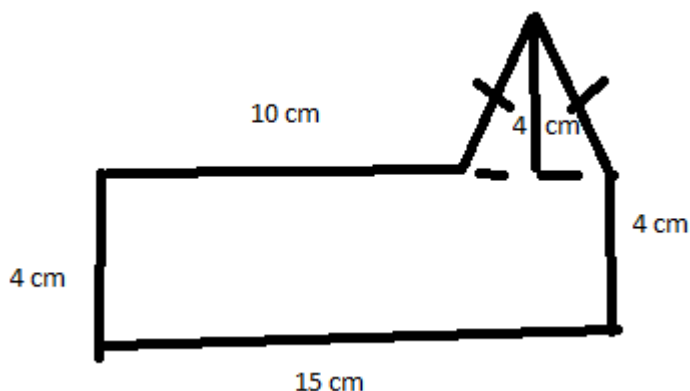
6. The following pair of triangle are congruent under RHS congruence rule. Find the missing values of x and y



مدرسة الورود الجديدة العالمية بجدة
 (قسم البنين) تحت إشراف وزارة التربية والتعليم
 ترخيص رقم ٦١ / س المنهج الهندي
 NEW AL WUROOD INTERNATIONAL SCHOOL - JEDDAH
 Affiliated to CBSE New Delhi - Affiliation No. 5730008

BLOCK 23: PERIMETER AND AREA

15. Find the area of a square park whose perimeter is 360m
16. The perimeter of a rectangular sheet is 100 cm and its length is 28 cm . Find its breadth and area.
17. Find the base of the triangle having height 3 cm and area 36 cm^2 .
18. Find the perimeter of the given figure



19. Fill in the blanks

- a. Value of Π is ----- approx..
- b. Circumference of circle -----
- c. $1\text{ m}^2 = \text{-----cm}^2$
- d. $1\text{ cm}^2 = \text{-----mm}^2$
- e. $1\text{ km}^2 = \text{-----m}^2$



BLOCK 26: Adding & Subtracting Expression

20. Identify terms which contain x and give the coefficient of x .
 $ay^2x^2 + x$ $b \ 14y^2 - 8xy$ $c \ x + 2 + y$
21. Subtract a). $ab - 5a$ from $5b - ab$
22. $x^2 - y^2 - 1$ from $y^2 - 1 - x^2$
23. find the values of the following expressions for $n = 2$
- a. $5n - 3$ b. $6n - 4$ c. $68n - 100$
24. True or False
- a. Sum of 4 and x is $4x$ -----

b. $4x$ is numerical coefficient of q^2 in $4xq^2$

c. when we add binomial and trinomial the answer can be a monomial

25. what should be subtracted from $-7ab + 2a^2 + 3b^2$ to get $a^2 + 2ab + b^2$?

26. IF $A=4x^2 - 3x + 2$, $B = 12x^2 + 3x - 8$ and $C = 4x^2 - 7x$ then find

a. $(A+B)-C$ b. $B+C-A$

27. Nisha has a square plot of side x m and another square plot of side y m. what is the perimeters of both the plots?

.....



MATHS