



AL KHOZAMA INTERNATIONAL SCHOOL, DAMMAM

B.E.S.T. Group of Schools, K.S.A.

Affiliated to CBSE – New Delhi, Affiliation No. 5730008

WORKSHEET-2

ANNUAL EXAMINATION (2020-2021)

Grade -7

Subject: Mathematics

BLOCK-15 :Congruence of triangles

1. Fill in the blanks

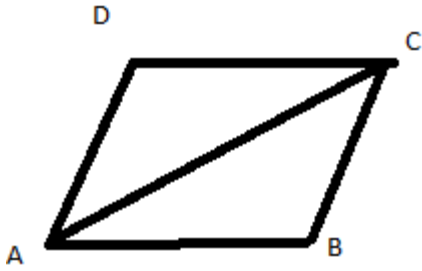
- a) Two line segments are congruent if
- b) Among two congruent angles, one has a measure of 80° , the measure of other angle is
- c) When we write $\angle P = \angle Q$ we actually mean

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.

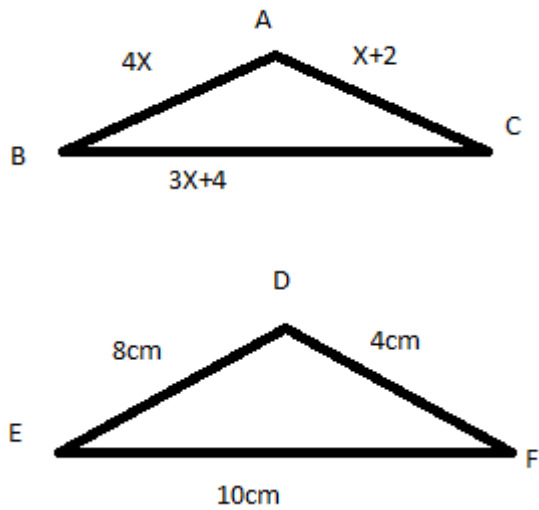
3. Give any two real life examples for congruent shapes.

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

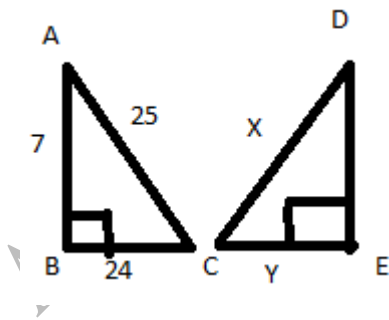


5. In given figure find value of x

If $\triangle ABC \cong \triangle DEF$

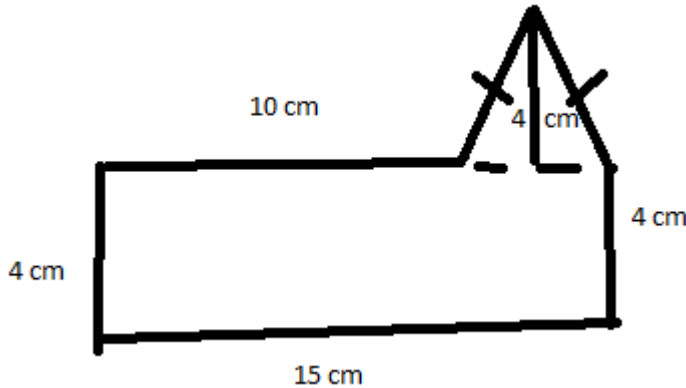


6. The following pair of triangle are congruent under RHS congruence rule. Find the missing values of x and y



BLOCK 23: PERIMETER AND AREA

7. Find the area of a square park whose perimeter is 360m
8. The perimeter of a rectangular sheet is 100 cm and its length is 28 cm . Find its breadth and area.
9. Find the base of the triangle having height 3 cm and area 36 cm².
10. Find the perimeter of the given figure



11. Fill in the blanks

- a. Value of π is ----- approx...
- b. Circumference of circle -----
- c. 1 m²=-----cm²
- d. 1 cm²=-----mm²
- e. 1 km²=-----m²

BLOCK 26: Adding & Subtracting Expression

12. Identify terms which contain x and give the coefficient of x.
a) $y^2x^2 + x$ b) $14y^2 - 8xy$ c) $x + 2 + y$
13. Subtract : $ab - 5a$ from $5b - ab$
14. $x^2 - y^2 - 1$ from $y^2 - 1 - x^2$
15. find the values of the following expressions for $n = 2$
a. $5n - 3$ b. $6n - 4$ c. $68n - 100$
16. 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
17. What should be subtracted from $-7ab + 2a^2 + 3b^2$ to get $a^2 + 2ab + b^2$?

18. IF $A=4x^2 - 3x + 2$, $B = 12x^2 + 3x - 8$ and $C = 4x^2 - 7x$ then find
a. $(A+B)-C$ b. $B+C-A$

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

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