

INTERNATIONAL INDIAN SCHOOL, RIYADH
WORK SHEET – SA2
VI – MATHEMATICS

INTEGERS

IFill in the blanks

1. The integer 5 more than (-2) is _____
2. The greatest negative integer is _____
3. All natural numbers are _____ integers
4. $25 - (-2) =$ _____
5. $(-35) + (-15) =$ _____
6. $46 + (-98) =$ _____
7. The additive inverse of (-13) is _____
8. The integer which is neither positive nor negative is _____
9. 0 is larger than every _____ integer.
10. _____ + (-14) = -9

II Answer the following :

1. Represent as an integer with suitable sign.
a. Saving Rs. 2500. b. Going 450 m below the sea level.
2. Add using number line.
a. 5 more than (-3) b. $(-2) + (-6)$
3. Arrange in descending order .
(-45), (-86), (-17), (-95)
4. Write six integers less than (-4).
5. Which number will be reach if we move 5 numbers to the left of (-6)?
6. Which is greater ? (-23) or (-45)
7. Find the sum of (-39) and (-63)
8. Subtract (-8) from 25.
9. If we are at 5 on the number line, in which direction should we move to reach (-9)?
10. Add :- $(-460) + 125 + (-325) + 250$

11. Subtract : a) $(-40) - (25)$ b) $105 - (-76)$
12. Find a) $(-42) + 26 - (-15)$ b) $(-25) - 14 - (-75)$
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Ratio and proportion

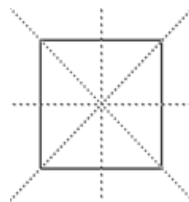
- 1 Find the ratio of the following
- a. 15 minutes to an hour e. 45 seconds to 2 minutes
b. 50 gm to 1.5 kg f. 10 metres to 25 cm
c. 40 cm to 2.5 m g. 250 gm to a kilogram
d. 15 paise to five rupees
- 2 In a box containing 80 bulbs, 15 were found to be defective. Find the ratio of defective to good bulbs.
- 3 The ratio of the length and breadth of a football ground is 3 : 2. Find the length if the breadth is 28 metres.
- 4 Sumita gets pocket money of ₹ 500 per month. Out of which she saves ₹ 40 per month. Find the ratio of her savings to the amount she gets.
- 5 Sumit buys pencils at the rate of ₹ 36 per dozen and pens at the rate of ₹ 72 per dozen. Find the ratio of cost of a pencil to cost of a pen.
- 6 Divide ₹ 200 between Rita and Gita in the ratio 2 : 3
- 7 Determine if the following ratios form a proportion
- a. 20 cm : 1 m and 3.5 l : 17.5 l
b. 2 kg : 80 kg and 25 g : 625 g
c. 200 ml : 2.5 l and ₹ 4 : ₹ 50
d. 440 m : 2 km and 55 cm : 3m
- 8 A worker is paid ₹ 560 for 5 days. What should be paid to the worker for 28 days.
- 9 A family of 4 members consumes 6 kg of sugar in a month. What will be the monthly consumption of sugar if the number of family members becomes 6.
- 10 A car travels 165 km in 3 hrs.
- a. How long will it take to travel 440 km?
b. How far will it travel in 7 hrs.

11. 15 boys can type 270 pages a day how many pages 36 boys can type a day.
12. The weight of 15 bags of rice is 112.5 kg
 - a. What is the weight of 10 such bags
 - b. How many bags will weigh 750 kg.

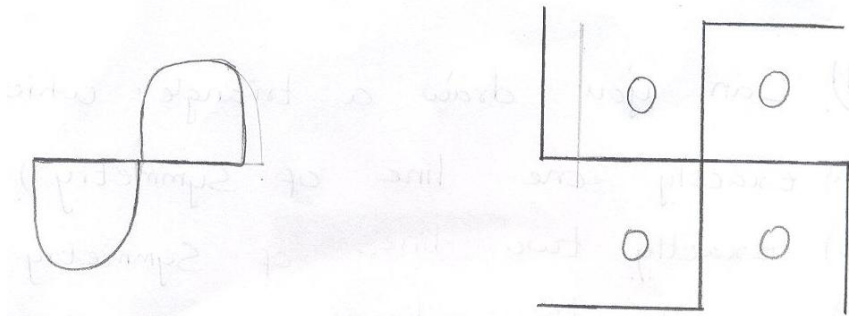
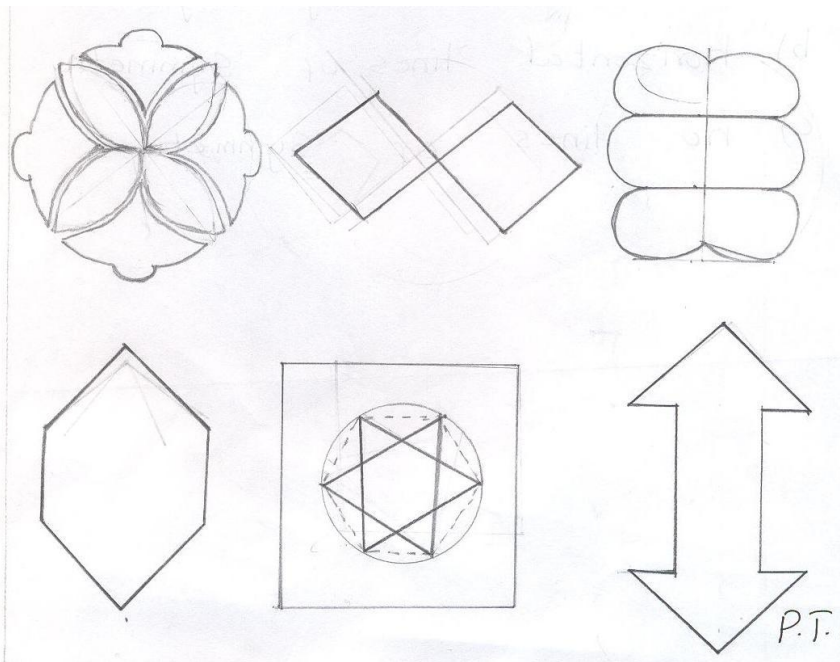
Practical Geometry

1. Draw any circle and mark points x, y and z such that 'x' is on the circle, y in the interior of the circle and 'z' is in the exterior of the circle.
2. Draw any line segment \overline{AB} , construct \overline{PQ} without measuring \overline{AB} such that the length of PQ is twice that of AB.
3. Draw any line segment \overline{XY} . Mark any point M on it. Through M draw a perpendicular to \overline{XY} . (use ruler and compasses)
4. Draw a line segment of length 10 cm and construct its perpendicular bisector.
5. Draw a line segment of length 12 cm. using compasses divide it into four equal parts verify by actual measurement.
6. Draw an angle of measure 140° and construct its bisector.
7. Draw an angle measure 150° and divide it into four equal parts.
8. Construct with ruler and compasses, angles of following measures.
 - a. 60° , b. 30° c. 90° d. 120° e. 45°

Symmetry
Asymmetry



- 1) Can you draw a triangle which has
 - a) exactly one line of symmetry
 - b) exactly two lines of symmetry ?
 - c) exactly three lines of symmetry ?
 - d) no lines of symmetry ?
- 2) Find the number of lines of symmetry in each of the following shapes ?



- 3) Consider the letters of English alphabets, A to Z.
List among them the letters which have
- Vertical lines of symmetry
 - Horizontal lines of symmetry
 - No lines of symmetry

4) Complete the following table :

Sl#	Shape	Rough Figure	Number of lines of symmetry
1.	Equilateral triangle		
2.	Square		
3.	Rectangle		
4.	Isosceles Triangle		
5.	Rhombus		
6.	Circles		
7.	Parallelogram		
8.	Scalene Triangle		

5) Write some application of symmetry in everyday life.