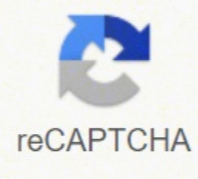


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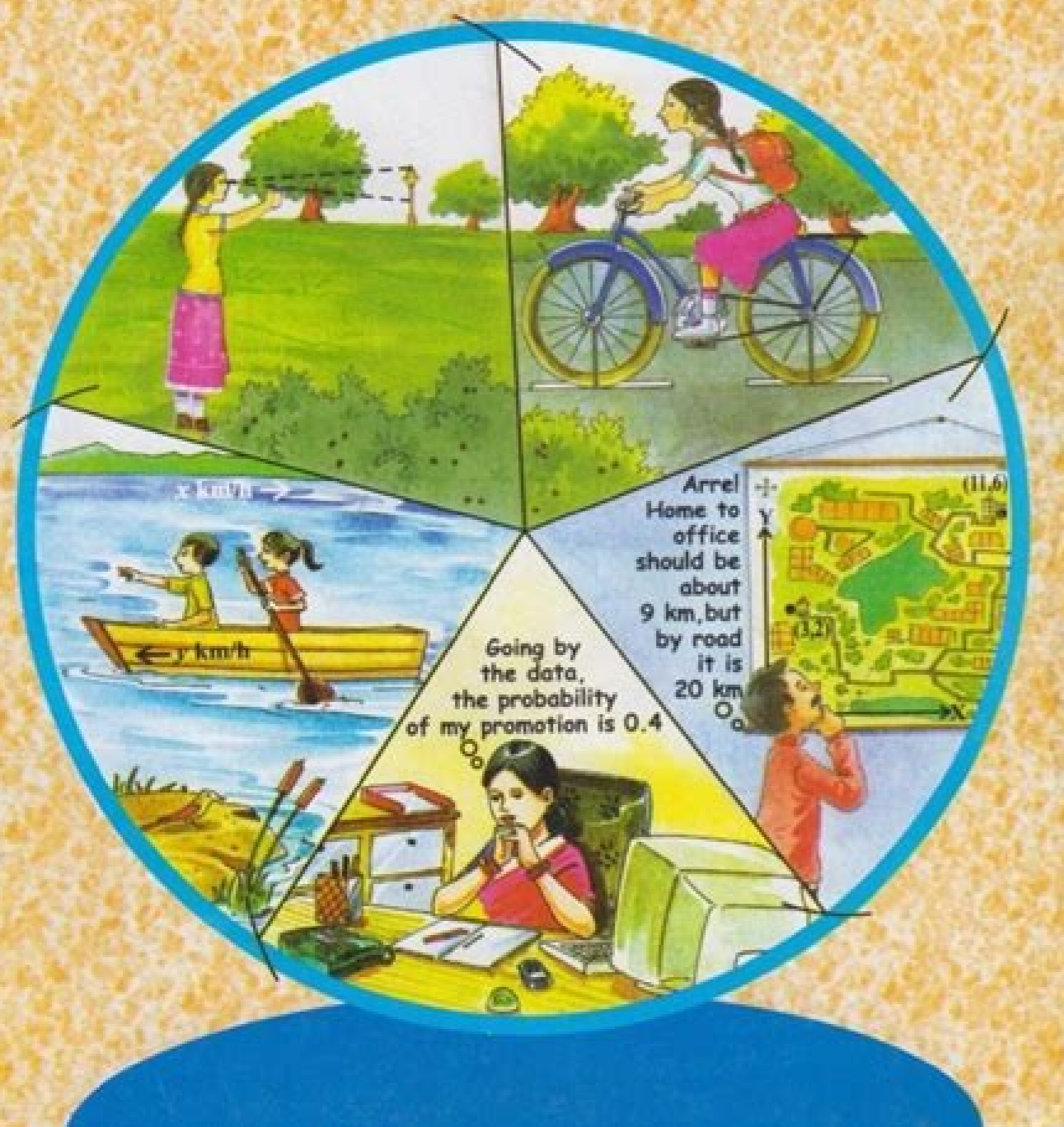


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MATHEMATICS

Textbook For Class X



BYJU'S The Learning App
NCERT Exemplar Solutions For Class 10 Maths Chapter 2- Polynomials

$\alpha\beta = c/a$
 Product of the zeroes = $(-2)(2/3) = -4/3$

3. $5t^2 + 12t + 7$
Solution:

$5t^2 + 12t + 7$
 Splitting the middle term, we get,
 $5t^2 + 5t + 7t + 7$
 Taking the common factors out, we get,
 $5t(t+1) + 7(t+1)$
 On grouping, we get,
 $(t+1)(5t+7)$
 So, the zeroes are,
 $t+1=0 \Rightarrow t = -1$
 $5t+7=0 \Rightarrow 5t = -7 \Rightarrow t = -7/5$
 Therefore, zeroes are $(-7/5)$ and -1
Verification:
 Sum of the zeroes = $-(\text{coefficient of } x) \div \text{coefficient of } x^2$
 $\alpha + \beta = -b/a$
 $(-1) + (-7/5) = -(12)/5$
 $= -12/5 = -12/5$
 Product of the zeroes = $\text{constant term} \div \text{coefficient of } x^2$
 $\alpha\beta = c/a$
 $(-1)(-7/5) = -7/5$
 $-7/5 = -7/5$

4. $t^3 - 2t^2 - 15t$
Solution:

$t^3 - 2t^2 - 15t$
 Taking t common, we get,
 $t(t^2 - 2t - 15)$
 Splitting the middle term of the equation $t^2 - 2t - 15$, we get,
 $t(t^2 - 5t + 3t - 15)$
 Taking the common factors out, we get,
 $t(t(t-5) + 3(t-5))$
 On grouping, we get,
 $t(t+3)(t-5)$
 So, the zeroes are,
 $t=0$
 $t+3=0 \Rightarrow t = -3$
 $t-5=0 \Rightarrow t = 5$
 Therefore, zeroes are $0, 5$ and -3
Verification:
 Sum of the zeroes = $-(\text{coefficient of } x^2) \div \text{coefficient of } x^3$
 $\alpha + \beta + \gamma = -b/a$

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Mathematics
 (www.thwartacademy.com)
 (Chapter - 10) (Measurement)
 (Class - 10)

- Answer 11:**
 Length of string = Perimeter of each figure
 (a) Perimeter of square = 30 cm
 $\Rightarrow 4 \times \text{side} = 30 \text{ cm}$
 $\Rightarrow \text{Side} = \frac{30}{4} = 7.5 \text{ cm}$
 Thus, the length of each side of square is 7.5 cm.
 (b) Perimeter of equilateral triangle = 30 cm
 $\Rightarrow 3 \times \text{side} = 30 \text{ cm}$
 $\Rightarrow \text{Side} = \frac{30}{3} = 10 \text{ cm}$
 Thus, the length of each side of equilateral triangle is 10 cm.
 (c) Perimeter of hexagon = 30 cm
 $\Rightarrow 6 \times \text{side} = 30 \text{ cm}$
 $\Rightarrow \text{Side} = \frac{30}{6} = 5 \text{ cm}$
 Thus, the side of each side of hexagon is 5 cm.
- Question 12:**
 Two sides of a triangle are 12 cm and 14 cm. The perimeter of the triangle is 36 cm. What is the third side?
Answer 12:
 Let the length of third side be x cm.
 Length of other two side are 12 cm and 14 cm.
 Now, Perimeter of triangle = 36 cm
 $\Rightarrow 12 + 14 + x = 36$
 $\Rightarrow 26 + x = 36$
 $\Rightarrow x = 36 - 26$
 $\Rightarrow x = 10 \text{ cm}$
 Thus, the length of third side is 10 cm.
- Question 13:**
 Find the cost of fencing a square park of side 250 m at the rate of ₹20 per meter.
Answer 13:
 Side of square = 250 m
 Perimeter of square = $4 \times \text{side}$
 $= 4 \times 250$
 $= 1000 \text{ m}$
 Since, cost of fencing of per meter = ₹ 20
 Therefore, the cost of fencing of 1000 meters = $20 \times 1000 = ₹20,000$
- Question 14:**
 Find the cost of fencing a rectangular park of length 175 m and breadth 125 m at the rate of ₹12 per meter.
Answer 14:
 Length of rectangular park = 175 m

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