

## CLASS NOTES

Class: 4

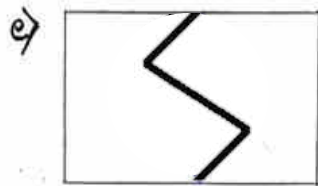
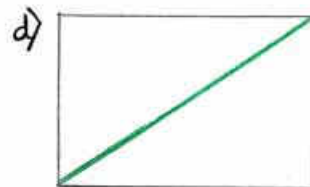
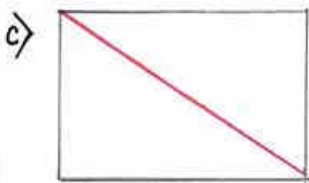
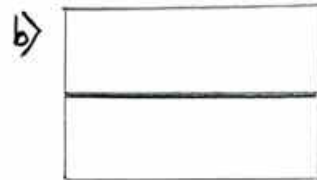
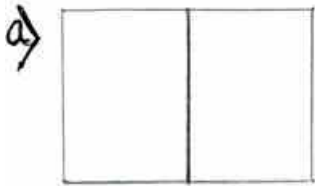
Chapter : 9

Subject: Mathematics

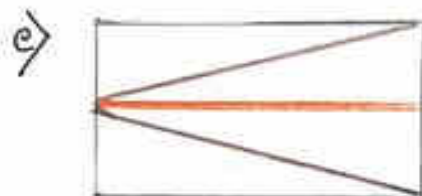
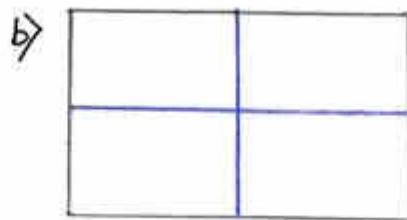
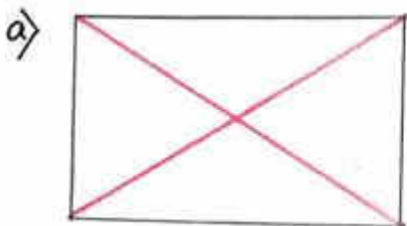
Halves & Quarters

**COPY THE CONTENT IN YOUR MATHS COPY**

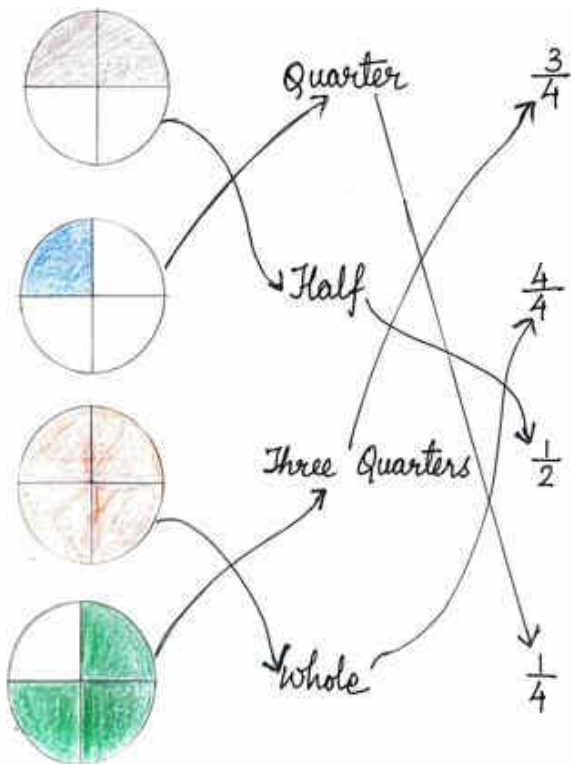
Q. Divide the rectangles into half, in 5 different ways –



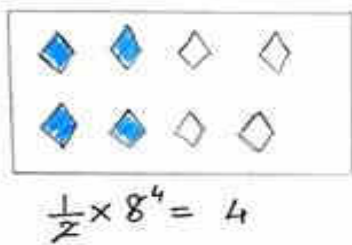
Q. Divide the rectangles into 4 equal parts, in 5 different ways –



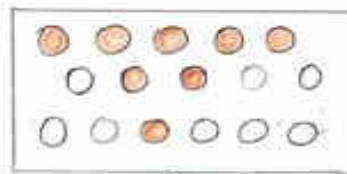
Q. Match the following –



Q. Colour half the number of shapes –

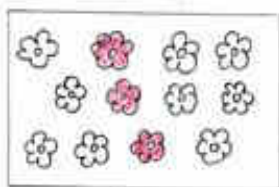


$$\frac{1}{2} \times 8 = 4$$

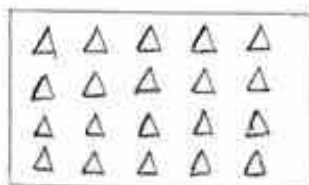


$$\frac{1}{2} \times 16 = 8$$

Q. Colour  $\frac{1}{4}$  the number of shapes –



$$\frac{1}{4} \times 12 = 3$$



$$\frac{1}{4} \times 20 = 5$$

Word Problems –

Q.1 There are 60 mangoes.  $\frac{1}{2}$  of them are ripe. How many mangoes are ripe?

Sol.: Total mangoes = 60

Fraction of riped mangoes =  $\frac{1}{2}$

No. of mangoes riped =  $\frac{1}{2} \times 60 = 30$

**Ans.: 30 mangoes are ripe .**

Q.2 There are 32 children.  $\frac{1}{2}$  of them are girls. How many children are boys?

Sol.: Total children = 32

Fraction of girls =  $\frac{1}{2}$

No. of girls =  $\frac{1}{2} \times 32 = 16$

So, no. of boys =  $32 - 16 = 16$

**Ans.: There are 16 boys.**

Q.3 There are 20 stars. A quarter of them are red. How many of them are red?  
How many of them are not red?

Sol.: Total stars = 20

Fraction of red stars =  $\frac{1}{4}$  (quarter)

No. of red stars =  $\frac{1}{4} \times 20 = 5$  (4 x 5 = 20)

No. of stars that are not red =  $20 - 5 = 15$

**Ans.: No. of red stars = 5**

**No. of stars that are not red = 15**

Q.4 Ravi wants a pencil. It costs Rs.2. He gives a one rupee coin, one  $\frac{1}{2}$  rupee coin and one  $\frac{1}{4}$  rupee coin. Is it enough?

Sol.:Cost of pencil = Rs.2

|           |                                |           |  |
|-----------|--------------------------------|-----------|--|
| Ravi gave | = one rupee coin               | = Re. 1   |  |
|           | = one $\frac{1}{2}$ rupee coin | =50 paise | ( $\frac{1}{2} \times 100$ paise= 50)  |
|           | = one $\frac{1}{4}$ rupee coin | =25 paise | ( $\frac{1}{4} \times 100$ paise = 25) |

Total amount = Re.1 + 50 p + 25 p = Rs.1 and 75 paise

**Ans.:No, the money is not enough. He needs 25 paise more.**

Using the price list answer the questions –

| Item     | Price per kg |
|----------|--------------|
| Tomatoes | Rs. 8        |
| Potatoes | Rs.12        |
| Onions   | Rs.10        |
| Carrots  | Rs.16        |
| Pumpkin  | Rs.4         |

1) Find the cost of  $\frac{1}{2}$  kg tomatoes.

Sol.: Cost of 1 kg tomatoes = Rs. 8

So, the cost of  $\frac{1}{2}$  tomatoes =  $\frac{1}{2} \times 8 = \text{Rs. } 4$        $(8 \div 2 = 4)$

**Ans.: Cost of  $\frac{1}{2}$  tomatoes = Rs. 4**

2) Which costs more –  $\frac{1}{2}$  kg onions or  $\frac{1}{4}$  kg carrots?

Sol.: Cost of 1 kg onion = Rs. 10

So, cost of  $\frac{1}{2}$  kg onion =  $\frac{1}{2} \times 10 = \text{Rs. } 5$        $(10 \div 2 = 5)$

Cost of 1 kg carrot = Rs. 16

So, cost of  $\frac{1}{4}$  kg onion =  $\frac{1}{4} \times 16 = \text{Rs. } 4$        $(16 \div 4 = 4)$

**Ans.: Half kg onions cost more than  $\frac{1}{4}$  kg carrot.**

3) Find the cost of  $\frac{3}{4}$  kg of potatoes.

Sol.: Cost of 1 kg potatoes = Rs. 12

So, cost of  $\frac{3}{4}$  kg potatoes =  $\frac{3}{4} \times 12 = \text{Rs. } 9$        $(12 \div 4 = 3)(3 \times 3 = 9)$

**Ans.: cost of  $\frac{3}{4}$  kg of potatoes = Rs.9.**

4) Keerthi is going for buying vegetables. She has only Rs.20 with her. Can she buy the following-  $\frac{1}{2}$  kg potatoes, 2kg pumpkin,  $\frac{1}{4}$  kg carrots.

Sol.: Cost of 1 kg potatoes = Rs. 12

Cost of  $\frac{1}{2}$  kg potatoes =  $\frac{1}{2} \times 12 = \text{Rs. } 6$        $(12 \div 2 = 6)$

Cost of 1 kg pumpkin = Rs. 4

Cost of 2 kg pumpkin =  $2 \times 4 = \text{Rs. } 8$

Cost of 1 kg carrot = Rs. 16

Cost of  $\frac{1}{4}$  kg carrot =  $\frac{1}{4} \times 16 = \text{Rs. } 4$        $(16 \div 4 = 4)$

**Total cost = 6 + 8 + 4 = Rs.18**

**Keerthi has Rs. 20**

**Ans.: Yes, she can buy all the vegetables.**

**The above content has been prepared at home .**

