

NCERT BOOK PAGE NO: 95

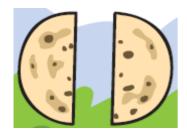
Half - Half

Question: 1

If the cat asks you to divide the chapati equally, how will you divide it?



Answer: I will fold the chapati into two equal halves and then break them from the creased line. Now, the chapati is half.



Half of Half

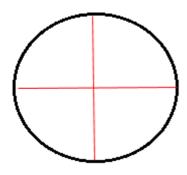


Question: 2

If two more cats come for food, how will you divide one chapatti equally for four cats?



Answer: First, divide the chapatis into two halves. Again, divide it into further two halves. Finally, I will break the chapatti from the creased line, as shown below:



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Half of Many Pieces

Rani got a chocolate. She divided it equally and gave half to her friend Reena.



Question: 3

(a) Circle the portion that Reena got.

Answer:



(b) How many pieces of chocolate are there?



Answer: There are six pieces of chocolate in total.

(c) How many pieces were left with Rani?

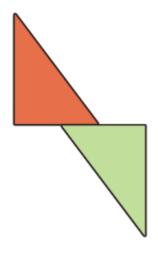
Answer: Rani gave half of her chocolate to her friend Reena. So, Rani was left with 3 pieces of chocolate.

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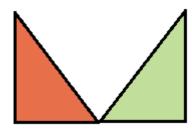
Many Shapes from a Half Sheet

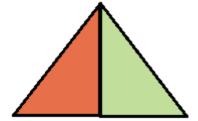
Question: 4

Draw different shapes using these triangles. One such shape is shown here.

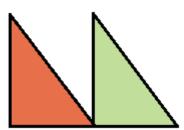


Answer: Shapes using these triangles are shown below:



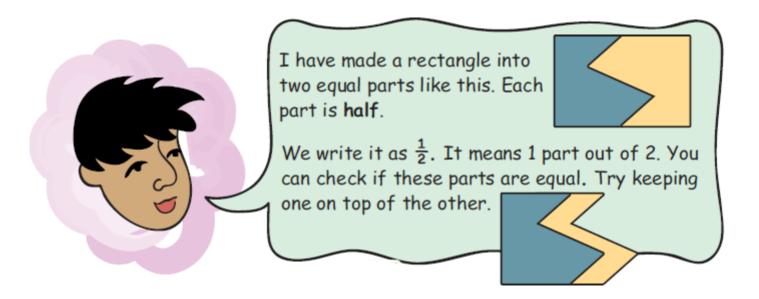






Many Ways to Cut into Half



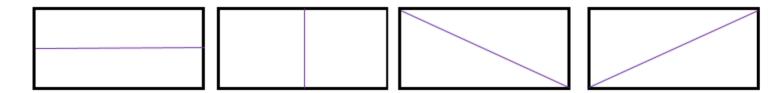


Question: 5

In how many different ways can you cut a rectangle into half? Draw 5 different ways. Can you check if they are equal?

Answer: The five different ways of a rectangle are shown below.

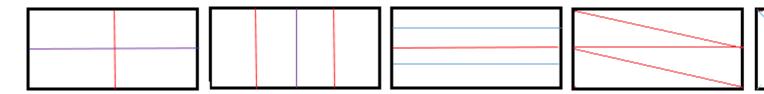
Each part of the rectangle is equal as it exactly coincides with the other part.



Question: 6

In how many different ways can you cut a rectangle into four equal parts? Draw five different ways. Can you check if they are equal?

Answer: A rectangle divided into four equal parts is shown below. Yes, they are equal since each part exactly coincides with the remaining three parts.





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Cutting the Cake

Rajni's father brought a cake. She divided the cake into 4 equal parts – for herself, her brother Raju, her father and her mother.



Question: 7

Colour each share with different colours.



Answer:



Question: 8

How much does each get?

Answer: Each get 1/4 of the cake.



Question: 9

Mother gave her share of the cake to Rajni. Now, colour the total part that Rajni will get.



Answer: Each person gets 1/4 of the cake. So,

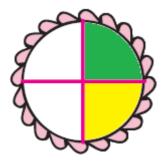
The cake that Rajni got = her share + her mother's share

= 1/4 + 1/4

= 2/4

= 1 / 2

Hence, Rajni got 1/2 part of the cake.



Question: 10

Out of 4 parts, Rajni will get _____ parts, which is equal to half of the cake.

So, she can write it as _____ /4 or 1/2

Answer: Rajni gets 2 parts of cake out of 4 parts. Hence, she can write it as 2/4 or ½.

Question: 11

Colour the share Raju got.





Answer: The shaded part shows 1/4 part of the cake, which Raju has got.

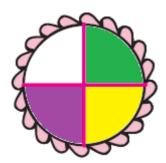


Question: 12

How much of the cake do Rajni and Raju together get? Colour their total share.



Answer: The total cake together Rajni and Raju got is 3/4





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Greedy Kundu

Kundu is a greedy man. Whenever he goes to the market, he wants to get more and more but doesn't want to spend much money.

One day he wants to eat pumpkin *halwa* (sweet dish). He tries to buy a big pumpkin with only Rs10. He asks the first pumpkin seller the price of a big pumpkin.

First pumpkin-seller $-\frac{1}{4}$ of this pumpkin is for Rs 10.

Question: 13
The full pumpkin will cost Rs.
Answer: Cost of 1/4 pumpkin = Rs. 10
Cost of one pumpkin = Rs 10 ÷ 1/4
= 10 × 4
= 40
Hence, the cost of one pumpkin = Rs. 40.



Kundu — Eh! For Rs 10, you should give me $\frac{1}{2}$ of this pumpkin.

First pumpkin-seller — Then you go to the next seller, he can give you $\frac{1}{2}$ of such a big pumpkin for Rs 10. I keep only good quality pumpkins.



Kundu walks to the next seller and looks for a pumpkin of the same size.

Question: 14

Kundu, how much of this pumpkin will I get for Rs 10? The second pumpkin seller told him half.

This full pumpkin will cost Rs. _____

Answer: The cost of half a pumpkin = Rs. 10

So, the cost of full pumpkin = Rs. 10 + Rs. 10

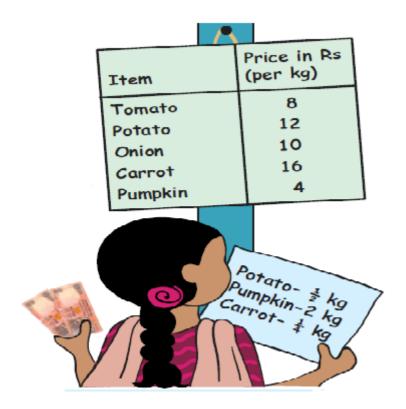
= Rs. 20

Therefore, the cost of one full pumpkin is Rs. 20.



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Using a Price List



Question: 15

(a) How much does 1/2 kg of tomatoes cost?

Answer: The cost of 1 kg tomato = Rs. 8

Hence, the cost of 1/2 kg tomato = Rs. 8 / 2

= Rs. 4

Therefore, the cost of 1/2 kg tomatoes = Rs. 4

(b) Which costs more - 1/2 kg of onions or 1/4 kg of carrots?

Answer: The cost of 1 kg onion = Rs. 10

Therefore, the cost of 1/2 kg onion = 10/2

= Rs. 5

The cost of 1 kg carrot = Rs. 16

Hence, the cost of 1/4 kg carrot = 16 / 4



= Rs. 4

Hence, the cost of 1/2 kg of onions is more than the cost of 1/4 kg of carrots.

(c) What is the price of 3/4 kg of potatoes?

Answer: The cost of 1 kg of potatoes = Rs. 12

The cost of 3/4 kg of potatoes = Rs. $12 \times 3/4$

= Rs. 36/4

= Rs. 9

Therefore, the cost of 3/4 kg of potatoes = Rs. 9

(d) Keerthi is going for shopping. She has only Rs. 20 with her. Can she buy all the things on her shopping list?

Answer: Total money Keerthi has = Rs. 20

Her shopping list includes = 1/2 kg potatoes, 2 kg pumpkin and 1/4 kg carrots.

Cost of 1 kg potatoes = Rs. 12

Cost of 1/2 kg potatoes = Rs. 12 / 2

= 6

Cost of 1 kg pumpkin = Rs. 4

Cost of 2 kg pumpkin = Rs. 4×2

= Rs. 8

Cost of 1 kg carrot = Rs. 16

Cost of 1/4 kg carrot = Rs. 16/4

= Rs. 4

Total cost of all the vegetables = 6 + 8 + 4

= Rs. 18

Hence, Keerthi can buy all the vegetables on her shopping list.

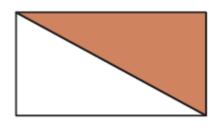


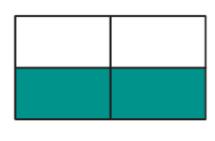
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Practice Time

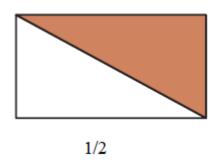
Question: 16

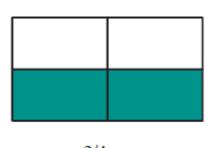
(a) What part of the whole is coloured? Write below each shape.





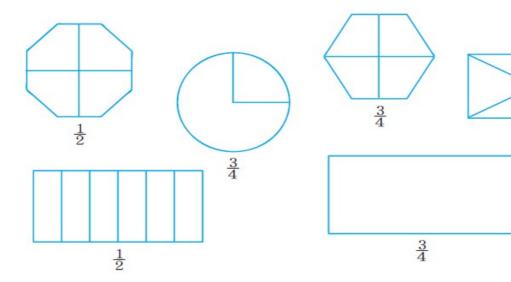
Answer:



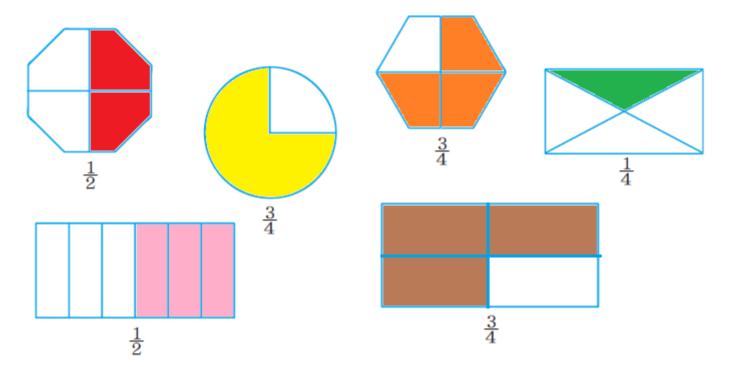


2/4

(b) Colour that part of the shape which is written below.

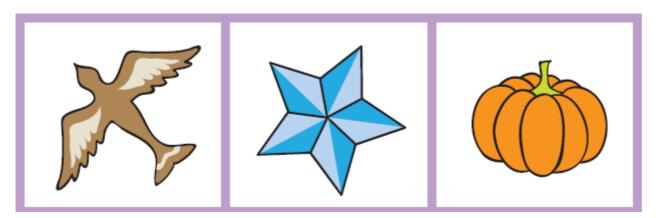




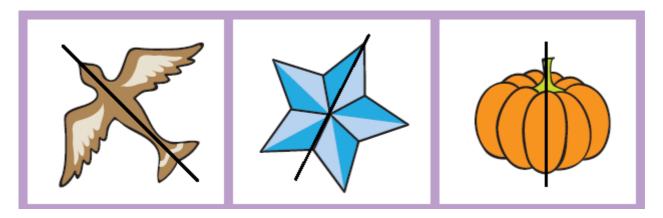


(c) Cut in half

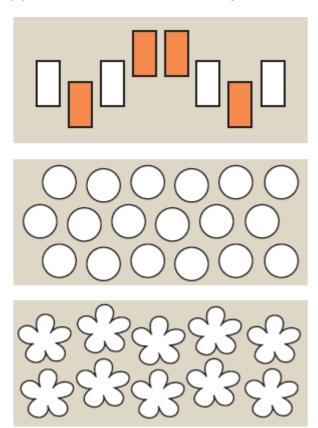
Draw a line which divides the below shapes into half.



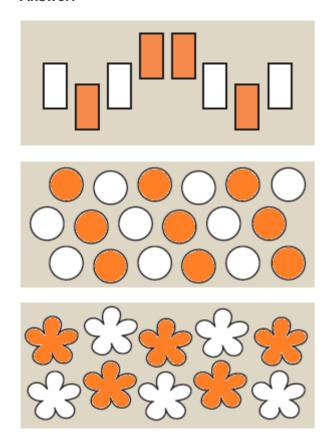




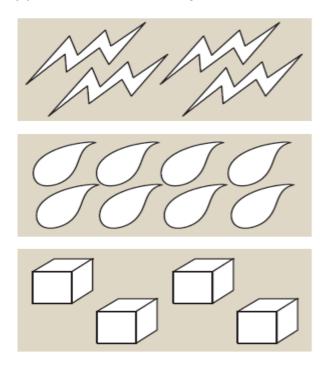
(d) Colour half the number of shapes as shown here.



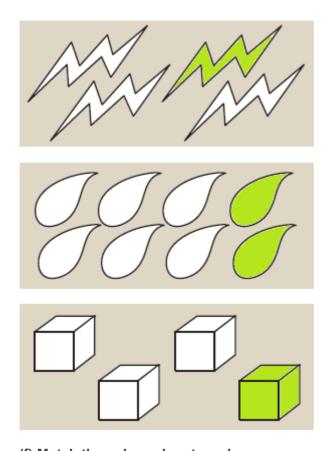




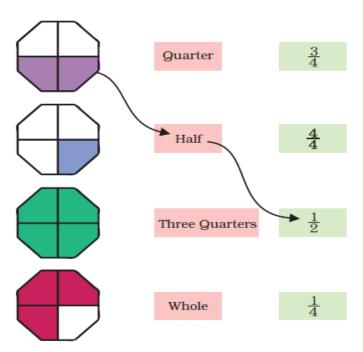
(e) Colour 1/4 of these shapes.



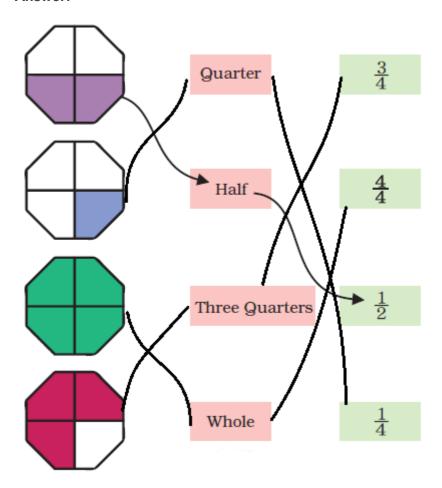




(f) Match the coloured part as shown.

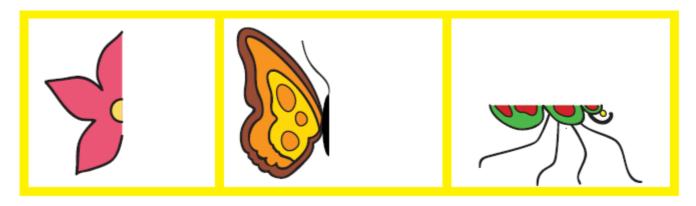




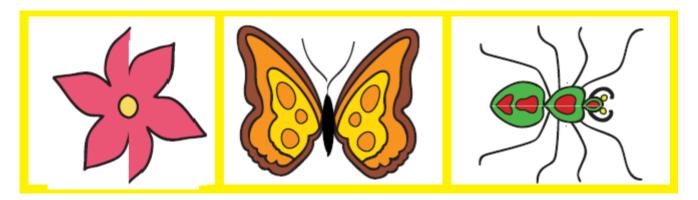


(g) Make the other half

1/2 of the picture is drawn here. Can you complete the picture by drawing the other half?



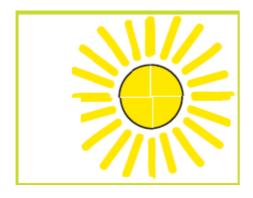




(h) This is a quarter of a picture. Can you complete it? How many more quarters will you draw to complete it?



Answer:



To complete the picture, three more quarters are required.

i.e, half and a quarter of a metre

Using your metre scale, cut a string of one metre.

On this string, mark the length 1/2 metre, 1/4 metre and 3/4 metre.

Using your string, draw a line of length ½ metre on the floor.



Question: 17

How many centimetres long is the line?



Answer: We know

1 m = 100 cm

1/2 m on the floor = 100 cm $\div 2$

= 50 cm

Hence, 1/2 m on the floor = 50 cm long

Question: 18

So,

1/2 metre = cm

1/4 metre = cm

3/4 metre = cm

Can you see that when we add 1/2 and 1/4, we get 3/4?

Answer:

 $1/2 \text{ metre} = 100 \times 1/2$

= 50 cm

 $1/4 \text{ metre} = 100 \times 1/4$

= 25 cm

 $3/4 \text{ metre} = 100 \times 3/4$

= 75 cm



Now, adding 1/2 and 1/4, we get

1/2 + 1/4 = (2 + 1)/4

= 3/4

Hence, on adding 1/2 and 1/4, we get 3/4.

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Sharing Milk

A bottle is full of milk, and it holds one litre. The milk is put into 4 other bottles so that each bottle has 1/4 litre of milk.

Question: 19

Shade the bottles to show the level of milk in each.



Answer:

The shaded portion shows the level of milk marked in the figure given below







Question: 20

How many millilitres of milk does each bottle have?

Answer:

We know,

1 litre = 1000 millimetres

Each bottle contains = 1/4 litre of milk

Hence, each bottle contains = 1000 mL ÷ 4

= 250 mL of milk.

Question: 21

Shan poured 1 litre of milk into two bottles so that the first bottle holds 3/4 litre and the other holds 1/4 litre.

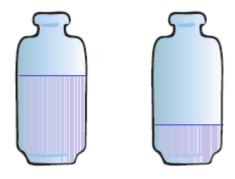
- (a) Shade the level of milk in each bottle.
- (b) How many millilitres of milk does each bottle hold?







(a) The level of milk marked is shown in the below figure:



(b) We know 1 litre = 1000 millilitres

Quantity of milk in first bottle = 750 mL of milk

Quantity of milk in second bottle = 250 mL of milk

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Balance the Weight





Question: 22

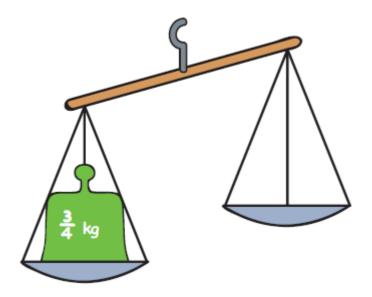
Choose from the weights above to make the two pans equal. In how many ways can you do it?

Answer: There are many ways to do it. Some of the ways are as follows:

Question: 23

In how many different ways can you balance this weight of 3/4 kg?

- 1)
- 2)
- 3)



Answer:

$$3/4 \text{ kg} = 1000 \text{ gm} \times 3/4$$

$$= 750 gm$$



2) 250 gm + 250 gm + 200 gm + 50 gm

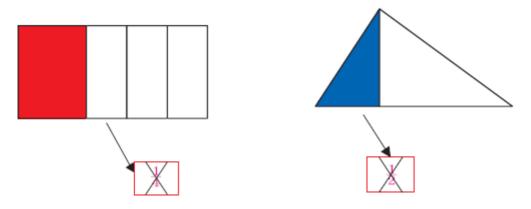
3) 500 gm + 250 gm

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Why is it wrong?

Question: 24

Kannan shaded some parts, as shown in the figure. But his friend Mini says that it is wrong. Explain why it is wrong.



Answer: Out of 5 parts of the rectangle, only 2 parts are coloured. Hence, it is 2/5 part which is coloured. In the triangle, we cannot say how many parts of it are coloured, but it is clear that the coloured part is less than 1/2 part. Hence, 1/2 is wrong.

Practice Time

Question: 25

There are 60 mangoes, and 1/2 of them are ripe. How many mangoes are ripe?

Answer: Total number of mangoes = 60 mangoes

Hence, the number of mangoes which are ripe = $1/2 \times 60$

= 30 mangoes.

Therefore, 30 mangoes are ripe.

Question: 26

There are 32 children, and 1/2 of them are girls. How many children are boys?



Answer: Total number of children = 32

Half of them are girls, then remaining half will be obviously boys

Hence, half of $32 = 1/2 \times 32 = 16$

Therefore, the number of boys is 16.

Question: 27

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

Answer: Total number of stars = 20 stars

1/4 stars are red

Hence, the number of red stars = $1/4 \times 20$

= 5 stars

Therefore, the number of stars which are red = 5 stars

Out of 20 stars, if 5 stars are red, then obviously remaining 15 stars are not red.

Therefore, the number of stars which are not red = 15 stars.

Question: 28

Ravi wants a pencil. It costs Rs. 2. He gives a one-rupee coin, one half-rupee coin and one quarter-rupee coin. Is it enough?



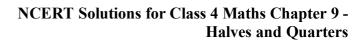


Answer: Total amount that Ravi gave = (1 + 0.50 + 0.25)

= Rs. 1.75

But, the cost of the pencil = Rs. 2

Money required to buy a pencil = Rs. (2.00 - 1.75)





= Rs. 0.25

Therefore, still, Rs. 0.25 is required to buy a pencil.

Hence, the money given by Ravi is not enough.

