

Fill the yellow boxes with 1-digit numbers (multiplicands and multipliers) such that you get the products given in the white boxes.

Fill the remaining white boxes with appropriate products.

The product of the numbers in each row is given in the orange boxes. The product of the numbers in each column is given in the blue boxes. Identify appropriate numbers to fill the blank boxes.

×				
	32			
			42	
		45		
	C		21	

		56	7		42
	O	54			50
63	48		60	35	

Times-10

Match each problem with the appropriate pictorial representation and write the answer.







Recall the times-tables that we created in Grade 3. Now construct a times-15 table. You may use the arrangement given below and split the columns into 10 and 5 for ease of counting, as shown on the previous page.

How can we find 1×15, 2×15, with this?



- 1. What patterns do you see in this table?
- 2. Compare the times-15 table with the times-5 table. What similarities and differences do you notice?

What times-table is this? ____ How did we get this?

Times - 5	Times - 15	15 - 5 = 10
1 × 5 = 5	1 × 15 = 15	30 - 10 = 20
2 × 5 = 10	2 × 15 = 30	45 – 15 = 30
3 × 5 = 15	3 × 15 = 45	
4 × 5 =	4 × 15 =	
5 × 5 =	5 × 15 =	
6 × 5 =	6 × 15 =	
7 × 5 =	7 × 15 =	
0 ^ 3 9 × 5 =	0 × 15 =	i
10 × 5 =	10 × 15 =	L

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- 3. Construct other times-tables for numbers from 11 to 20, as you did for 15.
- 4. As you compared the times-5 table with the times-15 table, compare the times-1 table with the times-11 table, the times-2 table with the times-12 table, and so on. Share your observations.



Here is an arrangement of wheels. To count the total number of wheels, Tara splits them into two equal groups.



We have seen how to calculate 3×14 and 6×14 by splitting and doubling. Can we construct the times-14 table by splitting and doubling? Try!

What other times-tables can be constructed by splitting into equal groups and doubling? Give examples.



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Now think and answer the following problems.

 $30 \times 10 = _$ $40 \times 10 = _$ $70 \times 10 = _$
 $50 \times 10 = _$ $60 \times 10 = _$ $80 \times 10 = _$

Let us find the number of people who can travel in 26 tempo travellers. $26 \times 10 =$ ______travellers.

26 × 10 = 26 Tens = 20 Tens + 6 Tens = 200 + 60 = 260

Answer the following questions. Share your thoughts.

a) $21 \times 10 =$ d) $38 \times 10 =$ b) $42 \times 10 =$ e) $53 \times 10 =$ c) $65 \times 10 =$ f) $87 \times 10 =$

A small bus can seat 20 people. How many people can be seated in 12 buses?

Now let us do 12×20 .



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Solve the following problems. Share your thoughts.



A Day at the Transport Museum

Amala, Raahi and Farzan are visiting the "Transport Museum".

This museum has a collection of different modes of transport used by people in India. It includes several vehicles from the olden days.

Raahi spots a toy train. She figures out that each coach can seat 14 children. The toy train has 15 coaches.



How many children can be seated in the toy train?



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×	10	4
10	$10 \times 10 = 100$	$10 \times 4 = 40$
5	$5 \times 10 = 50$	5 × 4 = 20
	150	60
		210

15 × 14 = 100 + 40 + 50 + 20 = 210 In 15 coaches, 210 children can be seated.

She wonders how many coaches will be needed for the 324 children from her school. Remember, each coach can seat only 14 children.

We have to find 324 ÷ 14

No. of children	No. of coaches needed	No. of children remaining	14) 324 (10+10+1+2 <u>-140</u> <u>184</u>
		324	$\frac{-140}{44}$
140	10	324 - 140 = 184	
140	10	184 – 140 = 44	28
14		44 – 14 = 30	$\overline{2}$
28	2	2	Total no. of coaches =

What do we do with the remaining 2 children? Discuss in grade.

Such remaining number in a division problem is called 'remainder'.

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Now answer the following questions. Share your thoughts.

	30 × 100 = 40 ×	100 =
	50 × 100 = 24 ×	100 =
	53 × 100 = 19 ×	100 =
	We Know 80 × 100 = 8000	
	Find	
	80 × 50 = 40 >	< 50 =
		193
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Let us find **11** × **200**



Note for Teachers: Encourage students to understand the multiplication of a number times-100 by splitting the number of groups in suitable ways. For example, 18 × 100 = 18 Hundreds = 10 Hundreds and 8 Hundreds, that is, 1800. Also, children should be encouraged to see relationships in the answers to two different multiplication problems like the ones above, for example, changing the group size from 100 to 200 or changing the number of groups from 11 to 22.

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Find the answers in Set A. Examine the relationships between the problems and the answers in Set A carefully. Then use this understanding to find the answers in Set B.



Amala is fascinated to read this information in the aeroplane section of the transport museum.

"During the COVID-19 pandemic, the Indian Government undertook a massive evacuation of Indians living outside the country, under a mission called Vande Bharat. In the first week, 64 flights carried 152 people each."

Note for Teachers: Encourage students to understand the patterns in the above problems. Relationships between doubles and halves and multiplication by 10s and 100s should be pointed out.

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Amala wonders how many people travelled the first week of this 'Vande Bharat Mission'.

Help her find the answer.

64 ×	152		
	100	50	2
60	60 × 100 = 6000	60 × 50 = 3000	60 × 2 =120
4 -{	4 × 100 = 400	4 × 50 = 200	4 × 2 = 8

×	100	50	2
60	6000	3000	120
4	400	200	8
	6400	3200	128
	(2	9728



Farzan notices the famous snake boat from Kerela.

The technique for making these boats is 800 years old. Vallam kali (the snake-boat race) is held during the monsoon season between July and September and concludes with Onam, the harvest festival. These boats are 30 to 35 metres long and can be peddled by 64–128 people.







In a particular race, 960 participants volunteered. Each boat is pedalled by 64 people. How many boats will be needed?

We have to find **960** ÷ **64**



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Find the answers to the following questions. Share your thoughts in grade.

40 ÷ 10 =	4 ÷ 2 =	400 ÷ 2 =
400 ÷ 10 =	40 ÷ 20 =	400 ÷ 20 =
400 ÷ 100 =	400 ÷ 200 =	400 ÷ 200 =

Think and answer. Write the division statement in each case.

- Manku the monkey sees 870 bananas in the market. Each bunch has 10 bananas. How many bunches are there in the market? _____
- Rukhma Bi wants to distribute ₹1000/- equally among her 10 grandchildren on the occasion of Eid.

How much money will each of them get? _



1. The oldest long-distance train of the Indian Railways is the Punjab Mail which ran between Mumbai and Peshawar. Its first journey was on 12 October 1912. Do you know how many



coaches it had on its first journey? It had 6 coaches: 3 carrying 96 passengers and 3 for goods.

- a) How many people travelled in each coach on the first journey?
- b) This train has been running for 106 years now. It runs between Mumbai, Maharashtra and Ferozepur, Punjab. It has 24 coaches. Each coach can carry 72 passengers. How many people can travel on this train?



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- a) 2 people can sit on every seat of the bus. There are 15 seats in the lower deck and 10 in the upper deck. How many seats will they need to occupy? Are there enough seats for everyone?
- b) Find the total cost of the tickets for all children.

teachers, are going on a school trip to Goa. They are using the double-decker "hop on hop

c) What is the cost of the tickets for all teachers?

off" sightseeing bus to explore the city.

- 3. Kedar works in a brick kiln.
 - a) The kiln makes 125 bricks in a day. How many bricks can be made in a month?
 - b) Each brick is sold in the market for ₹ 9. How much money can they earn in a month?
- 4. Chilika lake in Odisha is the largest saltwater lake in India. It is famous for the Irrawaddy dolphins. Boats can be hired to go see the dolphins. The trip from Puri includes a bus ride followed by a boat ride. Eight people will be going on the trip.

- A bus ticket from Puri to Satapada costs ₹ 60.
- A two-hour boat ride for 8 people costs ₹ 1200.
- How much money do we need to spend on each person?

Ticket price - ₹899/-Adult

- ₹359/-

Children





5. Find the multiplication and division sentences below. Shade the sentences. How many can you find? Some are done for you.

134	52	30	31	931	10	93	55
5	20	15	15	250	3	33	101
22	1040	450	0	4	26	104	5555
110	100	50	20	1000	60	16	99
44	104	19	3	6	22	132	7
20	6	950	6	6000	30	200	693
808	624	31	14	1200	8	16	24
35	9	525	5	105	62	3200	78

- 6. Solve
 - a) 35 × 76
 - b) 267 × 38
 - c) 498 × 9
 - d) 89 × 42
 - e) 55 × 23
 - f) 345 × 17
 - g) 66 × 22
 - h) 704 × 11
 - i) 319 × 26

20(

j) $459 \div 3$ k) $774 \div 18$ l) $864 \div 26$ m) $304 \div 12$ n) $670 \div 9$ o) $584 \div 25$ p) $900 \div 15$ q) $658 \div 32$ r) $974 \div 9$

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Chinnu's Coins

1. Five friends plan to visit an amusement park nearby. Each of them uses different notes and coins to buy the ticket. The cost of the ticket is ₹ 750.



- Bujji has brought all notes of ₹ 200.
- And Munna has brought all notes of \gtrless 50.
- Whereas Balu has brought all notes of \gtrless 20.
- And guess what, Chinnu has all coins of $\gtrless 5$.
- And Sansu has all coins of \mathbb{Z} 2.
- a) Find out how many notes/coins each child has to bring to buy the ticket.
- b) Which of these children will not receive any change from the cashier?
- c) How long would the cashier take to count Chinnu's coins?
- 2. Observe the following multiplications. The answers have been provided.

,				·····
1	12	11	13	11
	× 13	× 14	× 13	× 12
i .	156	154	169	132
×				/

In each case, do you see any pattern in the two numbers and their product? (Hint: Look at the coloured digits!)

For what other multiplication problems will this pattern hold? Find 5 such examples.



3. Assume each vehicle is travelling with full capacity. How many people can travel in each of these vehicles? Match them up.

