

Grade 4 Mathematics - Chapter 3

A Trip to Bhopal

Original Paryan learning material inspired by Grade 4 travel-and-number skills

Learning goals

Use large numbers in real situations, estimate quantities, add and subtract, compare distances, work with groups, and solve travel-based word problems.

1. Mathematics on a Journey

Trips give us many chances to use mathematics. We count people, compare distances, read numbers, estimate time, arrange groups, and calculate totals. Imagine that a school is planning an educational trip to Bhopal.

Example

There are 4 buses. Each bus carries 45 children. Total children = $4 \times 45 = 180$ children.

2. Working with Large Numbers

Large numbers become easier when we read them by place value. In 2,450, the digit 2 represents 2 thousands, 4 represents 4 hundreds, 5 represents 5 tens, and 0 represents 0 ones.

Number	Expanded form
1,325	$1,000 + 300 + 20 + 5$
2,408	$2,000 + 400 + 8$
5,670	$5,000 + 600 + 70$

Practice A - Numbers

- Write 3,426 in expanded form.
- What is the place value of 7 in 4,718?
- Which is greater: 2,950 or 2,905?
- Arrange in ascending order: 1,250; 1,205; 1,520; 1,025.

3. Addition on the Trip

Suppose 128 children join from one school and 96 from another. Total = $128 + 96 = 224$ children.

Practice B - Add

- $245 + 132 =$ _____
- $368 + 257 =$ _____
- $1,250 + 475 =$ _____

4. A museum had 325 student visitors in the morning and 248 in the afternoon. How many student visitors came altogether?

4. Subtraction and Finding the Difference

If a bus has 50 seats and 43 are occupied, empty seats = $50 - 43 = 7$. Subtraction can also tell us how much farther, fewer, or less.

Practice C - Subtract

1. $500 - 275 =$ _____
2. $825 - 348 =$ _____
3. $2,000 - 675 =$ _____
4. A trip is 760 km long. The bus has travelled 485 km. How many kilometres remain?

5. Estimation

Estimation gives a quick, sensible answer. For example, 198 is close to 200 and 304 is close to 300, so $198 + 304$ is about 500. The exact answer is 502.

Try estimating first, then calculate the exact answer.

1. $193 + 208$
2. $487 + 312$
3. $796 - 401$
4. $1,198 + 805$

6. Groups and Buses

Equal grouping is useful when arranging children into buses or teams.

1. 160 children are placed equally in 4 buses. How many children are in each bus?
2. There are 6 groups with 25 children in each group. How many children are there altogether?
3. 180 children sit equally in 5 buses. How many are in each bus?
4. A bus has 48 seats. How many seats are there in 3 identical buses?

7. Distance Problems

1. Town A to Town B is 125 km. Town B to Town C is 85 km. Find the total distance.
2. A bus travels 235 km before lunch and 178 km after lunch. How far does it travel in all?
3. One route is 540 km and another is 465 km. How much longer is the first route?
4. A journey is 900 km. After travelling 625 km, how much is left?

8. Trip Planning Activity

Complete this imaginary trip table. Add the distances to find the total journey.

Stage	Distance
School to Stop 1	85 km
Stop 1 to Stop 2	120 km
Stop 2 to Bhopal	145 km
Total	_____ km

9. Challenge Questions

1. Four buses carry 42 children each. Another bus carries 36 children. How many children are travelling altogether?
2. A school collected Rs. 2,450 for one activity and Rs. 1,875 for another. What is the total?
3. A journey of 1,250 km is completed in two parts. The first part is 675 km. Find the second part.
4. Make a travel problem whose answer is 500 km, then solve it.

10. Quick Quiz

1. $250 + 175 = ?$
2. $700 - 285 = ?$
3. 5 groups of 30 = ?
4. Which is greater: 1,099 or 1,909?
5. Estimate $398 + 205$ by rounding to the nearest hundred.

Answer Key

Practice A: 1) $3,000 + 400 + 20 + 6$; 2) 700; 3) 2,950; 4) 1,025, 1,205, 1,250, 1,520.

Practice B: 1) 377; 2) 625; 3) 1,725; 4) 573.

Practice C: 1) 225; 2) 477; 3) 1,325; 4) 275 km.

Estimation exact answers: 401, 799, 395, 2,003.

Groups: 40, 150, 36, 144.

Distance: 210 km, 413 km, 75 km, 275 km.

Trip activity: 350 km.

Challenge: 204 children; Rs. 4,325; 575 km; answer varies.

Quick Quiz: 425; 415; 150; 1,909; about 600.

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