4th Basic

5th Advanced

Helping With Math

USA GRADES

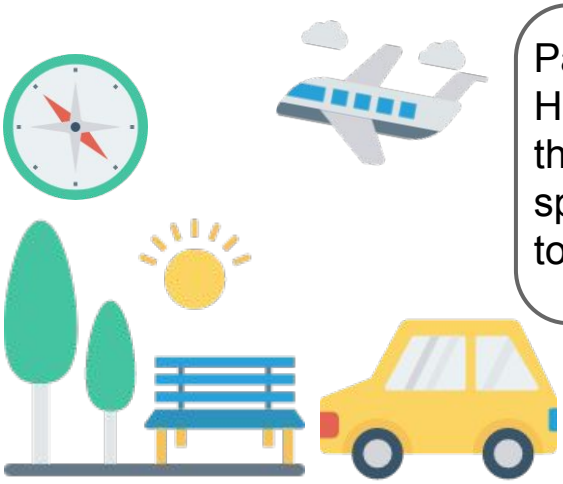
Multiplication of 2-Digit Numbers

Suitable for students **aged 8-10**

This pack is suitable for learners aged 8 to 10 years old or 4th to 5th graders (USA). The content covers fact files and relevant basic and advanced activities involving multiplication of two-digit numbers.

Key Concepts:

- In math, multiplication means adding equal groups.
- When we multiply, the number of things in the group increases.
- The two factors (multiplicand and multiplier) and the product are parts of a multiplication sentence.
- In the multiplication sentence, 10 × 12 = 120, the numbers 10 and 12 are the factors, while the number 120 is the product.



Paul is fond of travelling to various places. He enjoys learning from different people and their culture. He travels every month and spends $85 for travel tickets. What is the total amount spent by Paul in a year?

Steps in Multiplying Two-digit Numbers

1. Multiply by the ones' place.
2. Put a zero to hold the ones' place.
3. Multiply by the tens' place.
4. Add the partial products together.

Illustrative Example:

Paul is fond of travelling to various places to learn from different people and their culture. He travels every month and spends $ 85 for travel tickets. What is the total amount spent by Paul in a year?

$$\begin{array}{r} 85 \\ \times\ 12 \\ \hline ??? \end{array}$$

85 ← Paul's monthly expenses for tickets

x 12 ← Number of months in a year

??? ← The answer on the problem

$$\begin{array}{r} 85 \\ \times\ 12 \\ \hline 170 \end{array} \quad \Rightarrow \quad \begin{array}{r} 85 \\ \times\ 12 \\ \hline 170 \\ +\ 850 \\ \hline 1020 \end{array}$$

The product is 1,020. Therefore, Paul's expenses in travel tickets for a year is $ 1,020.

MORE EXAMPLES

1.
$$\begin{array}{r} 20 \\ \times\ 15 \\ \hline ??? \end{array}$$

2.
$$\begin{array}{r} 18 \\ \times\ 12 \\ \hline ??? \end{array}$$

3.
$$\begin{array}{r} 53 \\ \times\ 28 \\ \hline ??? \end{array}$$

SOLUTIONS:

1.
$$\begin{array}{r} 20 \\ \times\ 15 \\ \hline 100 \end{array} \Rightarrow \begin{array}{r} 20 \\ \times\ 15 \\ \hline 100 \\ +\ 200 \\ \hline \mathbf{300} \end{array}$$

2.

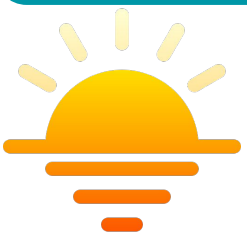
3.

TABLE OF ACTIVITIES

TRAVEL DAY

G4
Basic

Today is a time for travel! After a tiring week, you deserve to go to beautiful places. But before that, you need to solve the following given.



1) 10 x 3 = ?

2) 14 x 3 = ?

3) 15 x 5 = ?

4) 25 x 7 = ?

5) 22 x 2 = ?

6) 27 x 9 = ?

7) 30 x 8 = ?

8) 32 x 4 = ?

9) 39 x 9 = ?

10) 46 x 3 = ?

11) 41 x 8 = ?

12) 45 x 5 = ?

TICKET PRICE DEALS

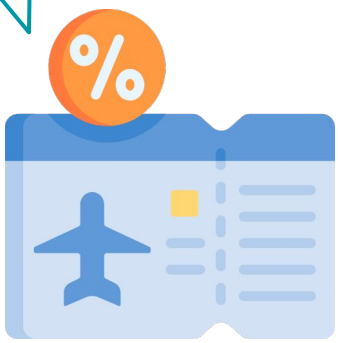
G4
Basic

Use your understanding of multiplication to determine the total amount of plane tickets in each situation.

1. LAX to AUS : $ 61
   12 passengers

2. LAX to IAH : $ 73
   18 passengers

3. AUS to ONT : $ 74
   24 passengers



4. SAN to IAH : $ 86
   15 passengers

5. ONT to AUS : $ 86
   21 passengers

6. OAK to IAH : $ 87
   28 passengers

HOTEL BOOKING RATES

G4
Basic

HWM Hotel room rates are on sale! Avail this limited promo by finding out the number code of the mystery key card.

1. $\begin{array}{r} 28 \\ \times\ 13 \\ \hline \end{array}$

2. $\begin{array}{r} 58 \\ \times\ 21 \\ \hline \end{array}$

3. $\begin{array}{r} 18 \\ \times\ 28 \\ \hline \end{array}$

4. $\begin{array}{r} 75 \\ \times\ 32 \\ \hline \end{array}$

5. $\begin{array}{r} 65 \\ \times\ 36 \\ \hline \end{array}$

6. $\begin{array}{r} 25 \\ \times\ 17 \\ \hline \end{array}$

____ ____ ____ ____ ____ ____

Clue: Input the last digit of each product to unlock the keycard!

MY BUCKET LIST

G4
Basic

These are the countries that Missy included in her bucket list. Guess the arrangement of the countries on her list by matching it to the product that you get.

1485

1633

986

1474

1. 34 x 29 = ?	2. 45 x 33 = ?
3. 67 x 22 = ?	4. 71 x 23 = ?

TOURIST DESTINATION

G4
Basic

Ben is planning to have a two-week travel vacation. He needs your help to finalize his vacation budget. Answer the following word problems using your understanding of multiplication.

1. Ben wants to buy five sets of cool summer shirts. Each set costs $15. He also wants to buy four pieces of trousers which costs $ 11 each. How much is he going to spend in all?

2. Upon booking, Ben is choosing between the two accommodation deals.
   a. $ 59 per night (stay for 5 nights)
   b. $ 48 per night (stay for 6 nights)

   Given this, which accommodation deal will need a cheaper budget?

HWM TRAVEL TOURS INC.

G5 Advanced

The Walker family will have an out-of-town travel! Help them get a discount in HWM Travel tours Inc. by identifying whether each multiplication sentence is TRUE or FALSE.

8. 24 x 24 = 567

4. 17 x 18 = 360

7. 16 x 21 = 336

3. 60 x 38 = 2280

6. 12 x 25 = 966

2. 50 x 30 = 1050

5. 11 x 45 = 495

1. 46 x 21 = 966

THE BEST ACCOMMODATION

G5 Advanced

A great deal is being offered by a famous resort in the nearby town. The resort is claiming that you can be able to get the deal of having "the best accommodation ever" if you ace the questions below.

1. What should be the other factor of 210, if the first factor is 30?

2. What is the product when 15 and 16 are multiplied together?

3. Is the product of 50 and 18 less than or greater than 1000? Prove.

4. Is the product of 27 and 14 a 4-digit number? Prove.

5. What is the ones digit of the product of 19 and 21?

OH NO! DELAYED FLIGHTS

G5 Advanced

Uh oh.. flights will be delayed for a couple of hours. To ease the boredom, answer the following flashcards.

HWM

14
x 9
_____

HWM

11
x 10
_____

HWM

15
x 18
_____

HWM

12
x 13
_____

HWM

23
x 18
_____

HWM

27
x 19
_____

HWM

29
x 11
_____

HWM

23
x 16
_____

HWM

39
x 13
_____

HWM

45
x 20
_____

HWM

50
x 20
_____

FAMILY TRAVEL BONDING

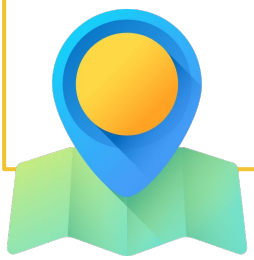
G5 Advanced

A family travel bonding will not be complete without a time to challenge each other's math ability! Read and answer the word problems below.

1. A car is travelling to its destination with a speed of 75 kph. If the car will run in a constant speed, what is the total distance it will cover in 8 hours?

2. In a 50-min drive, a car consumes 3 liters of gasoline. If it already running for 600 minutes, how much liter of gasoline did it already consume?

3. A car is travelling to its destination with a speed of 75 kph. If the desired destination is 500 km away from your house and the car is running constantly, is a six-hour non-stop drive enough to arrive at the desired place? Why or why not?



TRAVEL JOURNAL

G5 Advanced

The questions below need a 3-5 sentence answer regarding the importance of multiplication in our daily lives.

1. Share a particular moment when multiplication of numbers solve a real-life problem during family bonding/travel.

2. What is the importance of multiplying numbers when travelling?

3. Enumerate some travel scenarios where multiplication of numbers is being used to solve a problem.

ANSWER GUIDE

Activity 1

1. 30 2. 42 3. 75 4. 175 5. 44 6. 243
7. 240 8. 128 9. 351 10. 138 11. 328 12. 225

Activity 2

1. 793 2. 1314 3. 1776 4. 1290 5. 1806 6. 2436

Activity 3

1. 364 2. 1218 3. 504
4. 2400 5. 2340 6. 425 The code is : 484005

Activity 4

1. Denmark- 986 2. Japan- 1485 3. Poland- 1474 4. France- 1633

Activity 5

1. $75 for the shirts and $44 for trousers. The total amount is $119
2. Deal A costs $295 Deal B costs $288. So the cheaper accommodation is Deal B.

Activity 6

1. T 2. F 3. T 4. F 5. T 6. T 7. T 8. F

ANSWER GUIDE

Activity 7

1. The other factor should be 70.
2. The product is 240
3. Yes, it is less than 1000 because the product is 900.
4. No, the answer is 378. It is not a 4-digit number.
5. The ones digit of the product is 9.

Activity 8

1. 126	2. 110	3. 270	4. 156	5. 414
6. 513	7. 319	8. 368	9. 507	10. 900
11. 1000				

Activity 9

1. 600 km
2. 36 L
3. No, because a six-hour drive will only cover 450 km.

Activity 10

Answers may vary per learner.

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