



# **Facts and Patterns: Multiplication and Division Facts Test**



**Form B**

**Name** \_\_\_\_\_

**Grade** \_\_\_\_\_

**Date** \_\_\_\_\_

**School** \_\_\_\_\_

**Teacher** \_\_\_\_\_




# **Facts and Patterns: Multiplication and Division Facts Test**



**Form B Multiplication Facts**

## Demonstrate

1 $\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$	2 $\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$	3 $\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$	4 $\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$
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## Practice

1 $\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$	2 $\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$	3 $\begin{array}{r} 4 \\ \times 3 \\ \hline \end{array}$	4 $\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$	5 $\begin{array}{r} 2 \\ \times 10 \\ \hline \end{array}$
6 $\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$	7 $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$	8 $\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$	9 $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$	10 $\begin{array}{r} 6 \\ \times 3 \\ \hline \end{array}$
11 $\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$	12 $\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$	13 $\begin{array}{r} 6 \\ \times 6 \\ \hline \end{array}$	14 $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$	15 $\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$
16 $\begin{array}{r} 7 \\ \times 2 \\ \hline \end{array}$	17 $\begin{array}{r} 12 \\ \times 1 \\ \hline \end{array}$	18 $\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$	19 $\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$	20 $\begin{array}{r} 3 \\ \times 9 \\ \hline \end{array}$



1 $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$	2 $\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$	3 $\begin{array}{r} 5 \\ \times 9 \\ \hline \end{array}$	4 $\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$	5 $\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$	6 $\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$	7 $\begin{array}{r} 3 \\ \times 8 \\ \hline \end{array}$	8 $\begin{array}{r} 4 \\ \times 6 \\ \hline \end{array}$	9 $\begin{array}{r} 8 \\ \times 4 \\ \hline \end{array}$
10 $\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$	11 $\begin{array}{r} 9 \\ \times 4 \\ \hline \end{array}$	12 $\begin{array}{r} 4 \\ \times 9 \\ \hline \end{array}$	13 $\begin{array}{r} 4 \\ \times 4 \\ \hline \end{array}$	14 $\begin{array}{r} 5 \\ \times 11 \\ \hline \end{array}$	15 $\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$	16 $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$	17 $\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$	18 $\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$
19 $\begin{array}{r} 8 \\ \times 3 \\ \hline \end{array}$	20 $\begin{array}{r} 2 \\ \times 9 \\ \hline \end{array}$	21 $\begin{array}{r} 1 \\ \times 6 \\ \hline \end{array}$	22 $\begin{array}{r} 5 \\ \times 6 \\ \hline \end{array}$	23 $\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$	24 $\begin{array}{r} 10 \\ \times 5 \\ \hline \end{array}$	25 $\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$	26 $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$	27 $\begin{array}{r} 8 \\ \times 11 \\ \hline \end{array}$
28 $\begin{array}{r} 4 \\ \times 2 \\ \hline \end{array}$	29 $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$	30 $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$	31 $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$	32 $\begin{array}{r} 4 \\ \times 12 \\ \hline \end{array}$	33 $\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$	34 $\begin{array}{r} 9 \\ \times 9 \\ \hline \end{array}$	35 $\begin{array}{r} 11 \\ \times 9 \\ \hline \end{array}$	36 $\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$
37 $\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$	38 $\begin{array}{r} 9 \\ \times 12 \\ \hline \end{array}$	39 $\begin{array}{r} 2 \\ \times 3 \\ \hline \end{array}$	40 $\begin{array}{r} 3 \\ \times 12 \\ \hline \end{array}$	41 $\begin{array}{r} 2 \\ \times 4 \\ \hline \end{array}$	42 $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$	43 $\begin{array}{r} 10 \\ \times 11 \\ \hline \end{array}$	44 $\begin{array}{r} 7 \\ \times 11 \\ \hline \end{array}$	45 $\begin{array}{r} 2 \\ \times 6 \\ \hline \end{array}$
46 $\begin{array}{r} 4 \\ \times 11 \\ \hline \end{array}$	47 $\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$	48 $\begin{array}{r} 11 \\ \times 10 \\ \hline \end{array}$	49 $\begin{array}{r} 8 \\ \times 10 \\ \hline \end{array}$	50 $\begin{array}{r} 8 \\ \times 12 \\ \hline \end{array}$	51 $\begin{array}{r} 11 \\ \times 5 \\ \hline \end{array}$	52 $\begin{array}{r} 12 \\ \times 7 \\ \hline \end{array}$	53 $\begin{array}{r} 12 \\ \times 9 \\ \hline \end{array}$	54 $\begin{array}{r} 10 \\ \times 6 \\ \hline \end{array}$
55 $\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$	56 $\begin{array}{r} 10 \\ \times 2 \\ \hline \end{array}$	57 $\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$	58 $\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$	59 $\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$	60 $\begin{array}{r} 3 \\ \times 3 \\ \hline \end{array}$	61 $\begin{array}{r} 6 \\ \times 4 \\ \hline \end{array}$	62 $\begin{array}{r} 11 \\ \times 11 \\ \hline \end{array}$	63 $\begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$
64 $\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$	65 $\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$	66 $\begin{array}{r} 10 \\ \times 10 \\ \hline \end{array}$	67 $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	68 $\begin{array}{r} 1 \\ \times 10 \\ \hline \end{array}$	69 $\begin{array}{r} 12 \\ \times 2 \\ \hline \end{array}$	70 $\begin{array}{r} 3 \\ \times 6 \\ \hline \end{array}$	71 $\begin{array}{r} 12 \\ \times 11 \\ \hline \end{array}$	72 $\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$
73 $\begin{array}{r} 2 \\ \times 8 \\ \hline \end{array}$	74 $\begin{array}{r} 9 \\ \times 2 \\ \hline \end{array}$	75 $\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$	76 $\begin{array}{r} 8 \\ \times 6 \\ \hline \end{array}$	77 $\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$	78 $\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$	79 $\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$	80 $\begin{array}{r} 9 \\ \times 6 \\ \hline \end{array}$	81 $\begin{array}{r} 7 \\ \times 8 \\ \hline \end{array}$
82 $\begin{array}{r} 9 \\ \times 7 \\ \hline \end{array}$	83 $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$	84 $\begin{array}{r} 10 \\ \times 4 \\ \hline \end{array}$	85 $\begin{array}{r} 9 \\ \times 5 \\ \hline \end{array}$	86 $\begin{array}{r} 6 \\ \times 12 \\ \hline \end{array}$	87 $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	88 $\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$	89 $\begin{array}{r} 2 \\ \times 12 \\ \hline \end{array}$	90 $\begin{array}{r} 12 \\ \times 4 \\ \hline \end{array}$



91 $\begin{array}{r} 4 \\ \times 10 \\ \hline \end{array}$	92 $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$	93 $\begin{array}{r} 12 \\ \times 6 \\ \hline \end{array}$	94 $\begin{array}{r} 10 \\ \times 10 \\ \hline \end{array}$	95 $\begin{array}{r} 7 \\ \times 11 \\ \hline \end{array}$	96 $\begin{array}{r} 12 \\ \times 5 \\ \hline \end{array}$	97 $\begin{array}{r} 12 \\ \times 8 \\ \hline \end{array}$	98 $\begin{array}{r} 8 \\ \times 5 \\ \hline \end{array}$	99 $\begin{array}{r} 6 \\ \times 8 \\ \hline \end{array}$
100 $\begin{array}{r} 7 \\ \times 9 \\ \hline \end{array}$	101 $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$	102 $\begin{array}{r} 10 \\ \times 11 \\ \hline \end{array}$	103 $\begin{array}{r} 4 \\ \times 7 \\ \hline \end{array}$	104 $\begin{array}{r} 11 \\ \times 6 \\ \hline \end{array}$	105 $\begin{array}{r} 10 \\ \times 9 \\ \hline \end{array}$	106 $\begin{array}{r} 11 \\ \times 4 \\ \hline \end{array}$	107 $\begin{array}{r} 10 \\ \times 12 \\ \hline \end{array}$	108 $\begin{array}{r} 11 \\ \times 9 \\ \hline \end{array}$
109 $\begin{array}{r} 7 \\ \times 12 \\ \hline \end{array}$	110 $\begin{array}{r} 11 \\ \times 11 \\ \hline \end{array}$	111 $\begin{array}{r} 11 \\ \times 10 \\ \hline \end{array}$						






# **Facts and Patterns: Multiplication and Division Facts Test**



**Form B Division Facts**

## Demonstrate

1 $1 \overline{)9}$	2 $2 \overline{)12}$	3 $3 \overline{)9}$	4 $7 \overline{)14}$
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## Practice


1 $1 \overline{)11}$	2 $3 \overline{)18}$	3 $8 \overline{)16}$	4 $3 \overline{)33}$	5 $3 \overline{)21}$
6 $4 \overline{)12}$	7 $5 \overline{)15}$	8 $2 \overline{)14}$	9 $2 \overline{)24}$	10 $3 \overline{)9}$
11 $7 \overline{)21}$	12 $4 \overline{)16}$	13 $10 \overline{)20}$	14 $6 \overline{)42}$	15 $9 \overline{)18}$
16 $9 \overline{)45}$	17 $11 \overline{)55}$	18 $6 \overline{)36}$	19 $5 \overline{)35}$	20 $4 \overline{)32}$



1 $2 \overline{)14}$	2 $2 \overline{)20}$	3 $4 \overline{)44}$	4 $5 \overline{)20}$	5 $6 \overline{)60}$	6 $10 \overline{)50}$	7 $11 \overline{)55}$	8 $1 \overline{)6}$	9 $12 \overline{)24}$
10 $7 \overline{)21}$	11 $4 \overline{)16}$	12 $7 \overline{)35}$	13 $4 \overline{)24}$	14 $6 \overline{)12}$	15 $1 \overline{)5}$	16 $9 \overline{)36}$	17 $5 \overline{)55}$	18 $9 \overline{)45}$
19 $12 \overline{)36}$	20 $10 \overline{)60}$	21 $4 \overline{)36}$	22 $8 \overline{)88}$	23 $9 \overline{)90}$	24 $8 \overline{)24}$	25 $5 \overline{)25}$	26 $7 \overline{)63}$	27 $4 \overline{)40}$
28 $12 \overline{)48}$	29 $3 \overline{)36}$	30 $7 \overline{)42}$	31 $7 \overline{)28}$	32 $6 \overline{)24}$	33 $1 \overline{)9}$	34 $8 \overline{)56}$	35 $10 \overline{)110}$	36 $8 \overline{)72}$
37 $6 \overline{)48}$	38 $9 \overline{)63}$	39 $10 \overline{)70}$	40 $8 \overline{)80}$	41 $9 \overline{)108}$	42 $12 \overline{)144}$	43 $6 \overline{)36}$	44 $6 \overline{)54}$	45 $8 \overline{)40}$
46 $4 \overline{)8}$	47 $12 \overline{)108}$	48 $12 \overline{)84}$	49 $11 \overline{)88}$	50 $2 \overline{)18}$	51 $5 \overline{)40}$	52 $2 \overline{)6}$	53 $11 \overline{)121}$	54 $1 \overline{)8}$
55 $4 \overline{)44}$	56 $1 \overline{)2}$	57 $3 \overline{)12}$	58 $3 \overline{)6}$	59 $2 \overline{)22}$	60 $3 \overline{)9}$	61 $3 \overline{)21}$	62 $8 \overline{)64}$	63 $3 \overline{)15}$
64 $3 \overline{)30}$	65 $9 \overline{)36}$	66 $8 \overline{)16}$	67 $4 \overline{)20}$	68 $10 \overline{)80}$	69 $10 \overline{)50}$	70 $7 \overline{)77}$	71 $7 \overline{)14}$	72 $6 \overline{)30}$
73 $7 \overline{)49}$	74 $9 \overline{)27}$	75 $9 \overline{)45}$	76 $4 \overline{)16}$	77 $4 \overline{)28}$	78 $2 \overline{)12}$	79 $4 \overline{)12}$	80 $6 \overline{)72}$	81 $2 \overline{)24}$
82 $6 \overline{)12}$	83 $6 \overline{)60}$	84 $11 \overline{)88}$	85 $11 \overline{)110}$	86 $5 \overline{)30}$	87 $12 \overline{)24}$	88 $5 \overline{)40}$	89 $6 \overline{)18}$	90 $8 \overline{)32}$



91	92	93	94	95
$11 \overline{)44}$	$9 \overline{)63}$	$3 \overline{)24}$	$5 \overline{)60}$	$9 \overline{)18}$





**Facts and Patterns:  
Multiplication and Division  
Facts Test**



**Form B Conceptual Items**

## Demonstrate

Are the two expressions equal?

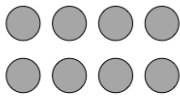
10                  5 + 5

- (A) Yes                   (B) No

$4 \times 3 = 12$   
is in the same fact family as:

- (A)  $12 \times 4 = 3$                    (B)  $12 \div 3 = 4$   
 (C)  $3 \div 4 = 12$                    (D)  $3 \times 12 = 4$

What fact is shown by the array:



- (A)  $4 \times 4$                    (B)  $8 \times 1$   
 (C)  $2 \times 4$                    (D)  $2 \times 8$

Lucas has 4 sheets of stickers with 10 stickers on each. How many stickers does he have?

- (A)  $4 + 10 = 14$                    (B)  $10 \times 40 = 4$   
 (C)  $4 \times 10 = 40$                    (D)  $4 + 10 = 40$



## Practice

Are the two  
expressions equal?

$10 + 10$        $30$

- (A) Yes       (B) No

Are the two  
expressions equal?

$4 \times 5$        $20$

- (A) Yes       (B) No

Which expression is equal to  
20?

- (A)  $20 + 20$        (B)  $10 + 10 + 10$   
 (C)  $2 \times 10$        (D)  $3 \times 5$

Kim walks 4 miles every day.  
How many miles does she walk  
in 7 days?

- (A)  $7 + 4 = 28$        (B)  $4 \times 7 = 28$   
 (C)  $4 + 7 = 11$        (D)  $4 \times 7 = 32$



1

June has 4 packages with 5 cupcakes in each. How many cupcakes does she have altogether?

- (A)  $4 + 5 = 20$       (B)  $5 + 4 = 9$   
(C)  $5 \times 4 = 9$       (D)  $4 \times 5 = 20$

2

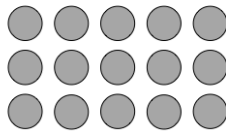
Are the two expressions equal?

$4 \times 4$        $4 + 4 + 4$

- (A) YES      (B) NO

3

What fact is shown by the array:



- (A)  $3 \times 5$       (B)  $3 \times 2$   
(C)  $5 \times 2$       (D)  $5 \times 15$

4

A guitar has 6 strings. Ming has 4 guitars. How many guitar strings are there in all?

- (A)  $4 \times 6 = 10$       (B)  $6 + 4 = 10$   
(C)  $6 \times 4 = 24$       (D)  $6 + 4 = 24$

5

Four multiples of 3 are:

- (A) 4, 5, 6, 7      (B) 8, 12, 16, 20  
(C) 6, 9, 12, 18      (D) 6, 10, 14, 18

6

Identify a member of the fact family.

$2 \times 8 = 16$

- (A) 10      (B) 16  
(C) 14      (D) 18



7

$48 \div 8 = \underline{\quad}$   
written as a multiplication  
sentence is:

- (A)  $48 \times \underline{\quad} = 48$       (B)  $8 \times \underline{\quad} = 48$   
(C)  $48 \times 8 = \underline{\quad}$       (D)  $48 \div 8 = \underline{\quad}$

8

$6 \times 7 = 42$   
is in the same fact family as:

- (A)  $7 \times 42 = 6$       (B)  $42 \div 7 = 6$   
(C)  $6 \div 7 = 42$       (D)  $6 \times 42 = 7$

9

Three consecutive multiples of 8  
are:

- (A) 16, 24, 32      (B) 5, 10, 15  
(C) 8, 12, 20      (D) 33, 42, 56

10

The commutative property of  
multiplication states that:  
 $9 \times 4 = \underline{\quad}$

- (A)  $4 \times 9$       (B)  $9 + 4$   
(C)  $4 \times 4 + 1$       (D) 36

11

$24 \div 6 = \underline{\quad}$   
written as a multiplication  
sentence is:

- (A)  $24 \div \underline{\quad} = 6$       (B)  $6 \times \underline{\quad} = 24$   
(C)  $24 \div 6 = \underline{\quad}$       (D)  $24 \times 6 = \underline{\quad}$

12

$81 \div 9 = \underline{\quad}$   
written as a multiplication  
sentence is:

- (A)  $9 \times 81 = \underline{\quad}$       (B)  $81 \div \underline{\quad} = 9$   
(C)  $9 \times \underline{\quad} = 81$       (D)  $81 \times 9 = \underline{\quad}$





13

Lacy can run 1 mile in 9 minutes.  
How many minutes will it take  
her to run 3 miles?

- A  $1 \times 9 = 9$        B  $9 \times 3 = 21$   
 C  $3 \times 1 = 3$        D  $3 \times 9 = 27$

14

Three consecutive multiples of  
10 are:

- A 2, 5, 10       B 5, 10, 15  
 C 10, 20, 30       D 20, 50, 70

15

Four multiples of 5 are:

- A 1, 5, 7, 12       B 6, 7, 8, 9  
 C 10, 15, 20, 25       D 3, 6, 9, 15

16

Identify a member of the fact family.  
 $5 \times 6 = 30$

- A 6       B 56  
 C 11       D 36

17

$5 + 5 + 5 + 5$   
can also be written as:

- A  $3 \times 4$        B  $5 \times 5$   
 C  $5 \times 4$        D  $4 \times 6$

18

Three consecutive multiples of 4  
are:

- A 2, 4, 6, 8       B 4, 6, 10, 12  
 C 12, 16, 20       D 5, 6, 7, 8



19

Juan's quiz has 9 questions. Each question is worth 5 points. How many possible points are there on Juan's quiz?

- A  $9 \times 5 = 14$        B  $9 + 5 = 14$   
 C  $9 \times 5 = 45$        D  $5 + 9 = 15$

20

Are the two expressions equal?

$3 \times 5$        $5 + 5 + 5$

- A YES       B NO

21

$6 \times 5000 =$

- A 11,000       B 3,000  
 C 30,000       D 30,300

22

$7 \times 34 =$

- A 238       B 120  
 C 210       D 308

