



Facts and Patterns: Multiplication and Division Facts Test



Form A

Name _____

Grade _____

Date _____

School _____

Teacher _____




Facts and Patterns: Multiplication and Division Facts Test



Form A Multiplication Facts

Demonstrate

<p>1</p> $\begin{array}{r} 2 \\ \times 2 \\ \hline \end{array}$	<p>2</p> $\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$	<p>3</p> $\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$	<p>4</p> $\begin{array}{r} 6 \\ \times 2 \\ \hline \end{array}$
-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------	-----------------------------------------------------------------



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



91 $\begin{array}{r} 4 \\ \times 12 \\ \hline \end{array}$	92 $\begin{array}{r} 12 \\ \times 3 \\ \hline \end{array}$	93 $\begin{array}{r} 10 \\ \times 3 \\ \hline \end{array}$	94 $\begin{array}{r} 9 \\ \times 11 \\ \hline \end{array}$	95 $\begin{array}{r} 10 \\ \times 8 \\ \hline \end{array}$	96 $\begin{array}{r} 4 \\ \times 11 \\ \hline \end{array}$	97 $\begin{array}{r} 11 \\ \times 7 \\ \hline \end{array}$	98 $\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	99 $\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$
100 $\begin{array}{r} 3 \\ \times 12 \\ \hline \end{array}$	101 $\begin{array}{r} 11 \\ \times 2 \\ \hline \end{array}$	102 $\begin{array}{r} 6 \\ \times 10 \\ \hline \end{array}$	103 $\begin{array}{r} 11 \\ \times 8 \\ \hline \end{array}$	104 $\begin{array}{r} 5 \\ \times 12 \\ \hline \end{array}$	105 $\begin{array}{r} 12 \\ \times 12 \\ \hline \end{array}$	106 $\begin{array}{r} 9 \\ \times 12 \\ \hline \end{array}$	107 $\begin{array}{r} 10 \\ \times 12 \\ \hline \end{array}$	108 $\begin{array}{r} 8 \\ \times 2 \\ \hline \end{array}$
109 $\begin{array}{r} 4 \\ \times 8 \\ \hline \end{array}$	110 $\begin{array}{r} 10 \\ \times 7 \\ \hline \end{array}$	111 $\begin{array}{r} 12 \\ \times 10 \\ \hline \end{array}$						






Facts and Patterns: Multiplication and Division Facts Test



Form A Division Facts

Demonstrate

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



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	3	4	5	6	7	8	9
$7 \overline{)14}$	$2 \overline{)22}$	$4 \overline{)20}$	$4 \overline{)12}$	$8 \overline{)16}$	$4 \overline{)28}$	$2 \overline{)12}$	$1 \overline{)3}$	$6 \overline{)30}$
10	11	12	13	14	15	16	17	18
$7 \overline{)77}$	$10 \overline{)80}$	$5 \overline{)45}$	$3 \overline{)18}$	$1 \overline{)11}$	$4 \overline{)28}$	$11 \overline{)22}$	$2 \overline{)24}$	$6 \overline{)42}$
19	20	21	22	23	24	25	26	27
$9 \overline{)27}$	$9 \overline{)81}$	$8 \overline{)48}$	$1 \overline{)12}$	$7 \overline{)49}$	$2 \overline{)16}$	$5 \overline{)35}$	$7 \overline{)56}$	$9 \overline{)18}$
28	29	30	31	32	33	34	35	36
$9 \overline{)72}$	$4 \overline{)32}$	$10 \overline{)30}$	$6 \overline{)66}$	$2 \overline{)4}$	$4 \overline{)48}$	$5 \overline{)60}$	$3 \overline{)24}$	$4 \overline{)40}$
37	38	39	40	41	42	43	44	45
$12 \overline{)72}$	$11 \overline{)44}$	$10 \overline{)20}$	$11 \overline{)99}$	$10 \overline{)100}$	$9 \overline{)54}$	$12 \overline{)60}$	$12 \overline{)120}$	$11 \overline{)77}$
46	47	48	49	50	51	52	53	54
$5 \overline{)50}$	$7 \overline{)84}$	$12 \overline{)96}$	$9 \overline{)99}$	$10 \overline{)90}$	$10 \overline{)120}$	$8 \overline{)32}$	$11 \overline{)132}$	$1 \overline{)7}$
55	56	57	58	59	60	61	62	63
$2 \overline{)10}$	$12 \overline{)132}$	$5 \overline{)10}$	$6 \overline{)18}$	$11 \overline{)66}$	$2 \overline{)14}$	$3 \overline{)33}$	$8 \overline{)96}$	$5 \overline{)30}$
64	65	66	67	68	69	70	71	72
$5 \overline{)55}$	$4 \overline{)24}$	$2 \overline{)20}$	$10 \overline{)40}$	$3 \overline{)18}$	$7 \overline{)35}$	$11 \overline{)55}$	$11 \overline{)33}$	$7 \overline{)70}$
73	74	75	76	77	78	79	80	81
$7 \overline{)63}$	$7 \overline{)56}$	$6 \overline{)42}$	$12 \overline{)24}$	$8 \overline{)48}$	$5 \overline{)20}$	$5 \overline{)15}$	$11 \overline{)22}$	$12 \overline{)36}$
82	83	84	85	86	87	88	89	90
$5 \overline{)45}$	$7 \overline{)21}$	$11 \overline{)77}$	$9 \overline{)81}$	$5 \overline{)45}$	$6 \overline{)36}$	$8 \overline{)64}$	$8 \overline{)96}$	$10 \overline{)90}$



91	92	93	94	95
$9 \overline{)108}$	$10 \overline{)110}$	$10 \overline{)30}$	$3 \overline{)27}$	$7 \overline{)28}$





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



Form A Conceptual Items

Demonstrate

Are the two expressions equal?

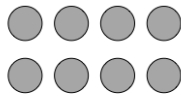
10 5 + 5

- (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) 4×4 (B) 8×1
 (C) 2×4 (D) 2×8

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?

4×5 20

- A Yes B No

Which expression is equal to
20?

- A $20 + 20$ B $10 + 10 + 10$
 C 2×10 D 3×5

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

Are the two expressions equal?

40 $10 + 10 + 10$

- (A) YES (B) NO

2

$6 + 6 + 6 + 6 + 6$
can also be written as:

- (A) 6×4 (B) 4×6
(C) 6×5 (D) $5 + 6$

3

The commutative property of multiplication states that:
 $6 \times 7 = \underline{\quad}$

- (A) $3 \times 3 + 1$ (B) 3×7
(C) 21 (D) 7×6

4

Which expression is equal to 20?

- (A) $10 + 10 + 10$ (B) $5 + 5 + 5$
(C) 6×3 (D) 4×5

5

Identify a member of the fact family.
 $45 \div 9 = 5$

- (A) 36 (B) 9
(C) 14 (D) 4

6

$45 \div 9 = \underline{\quad}$
written as a multiplication sentence is:

- (A) $45 \times 9 = \underline{\quad}$ (B) $9 \div 45 = \underline{\quad}$
(C) $9 \times 45 = \underline{\quad}$ (D) $9 \times \underline{\quad} = 45$



7

Three consecutive multiples of 3 are:

- (A) 12, 18, 24 (B) 1, 2, 3
(C) 6, 9, 12 (D) 9, 11, 13

8

$3 \times 5 = 15$
is in the same fact family as:

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

9

Four multiples of 2 are:

- (A) 8, 12, 14, 18 (B) 5, 8, 10, 14
(C) 3, 4, 5, 6 (D) 6, 9, 12, 14

10

Which expression is equal to 30?

- (A) $30 + 30 + 30$ (B) 3×10
(C) $10 + 10 + 10 + 10$ (D) $3 + 3 + 3 + 3$

11

Which expression is equal to 15?

- (A) 5×3 (B) $10 + 10$
(C) $5 + 9$ (D) $6 + 6$

12

The commutative property of multiplication states that:

$1 \times 6 = \underline{\quad}$

- (A) 6 (B) 7
(C) 1×6 (D) 6×1



13

Four multiples of 6 are:

- (A) 12, 13, 14, 15 (B) 3, 6, 9, 12
(C) 18, 24, 36, 54 (D) 7, 8, 9, 10

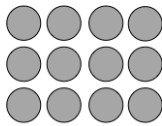
14

Identify a member of the fact family.
 $4 \times 9 = 36$

- (A) 32 (B) 9
(C) 13 (D) 40

15

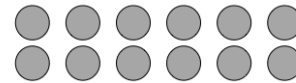
What fact is shown by the array:



- (A) 5×4 (B) 3×5
(C) 4×4 (D) 4×3

16

What fact is shown by the array:



- (A) 2×6 (B) 3×4
(C) 12×1 (D) 3×5

17

Are the two expressions equal?

20 $10 + 10$

- (A) YES (B) NO

18

The commutative property of multiplication states that:

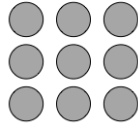
$3 \times 7 = \underline{\quad}$

- (A) 7×3 (B) $3 \times 3 + 1$
(C) 3×7 (D) 21



19

What fact is shown by the array:



- A 4×3 B 9×1
 C 3×3 D 2×4

20

$4 + 4 + 4 + 4 + 4 + 4$
can also be written as:

- A 2×3 B 4×6
 C 6×3 D 4×5

21

$800 \times 4 =$

- A 32,000 B 1,200
 C 3,200 D 320

22

$45 \times 6 =$

- A 240 B 200
 C 30 D 270

