7. [÷ Whole Numbers]

Skill 7.1 Understanding different terms used for division.

- Consider the words used with the numbers.
  Division is associated with words like: ***how many in, divided by, shared between, equally shared.***

Q. How many 2s in 10? ☐

A. $10 \div 2 = \mathbf{5}$

'how many 2s in' means division

a) 20 shared between 2 is 10

b) 25 divided by 5 is ☐

c) How many 5s in 15? ☐

d) 24 shared between 3 is ☐

e) 12 divided by 2 is ☐

f) How many 5s in 20? ☐

g) 21 shared between 3 is ☐

h) 16 divided by 2 is ☐

i) How many 3s in 27? ☐

j) 6 divided by 3 is ☐

k) 18 shared between 3 is ☐

l) How many 3s in 12? ☐

m) 30 shared between 5 is ☐

n) 18 divided by 2 is ☐

o) How many 2s in 14? ☐

p) 10 shared between 5 is ☐

q) 24 shared between 4 is ☐

r) 45 shared between 5 is ☐

s) 40 divided by 10 is ☐

t) How many 5s in 35? ☐

Skill 7.2 Dividing by 1 or 10.

Dividing by 1

- Write the given number as the result.
  Hint: dividing any number by 1 leaves the number unchanged.

Dividing by 10

- Remove one zero from the given number.

Q. $90 \div 10 =$ ☐ **A.** $9\cancel{0} \div 1\cancel{0} = \mathbf{9}$

a) $5 \div 1 =$ 5 **b)** $30 \div 10 =$ ☐

c) $60 \div 10 =$ ☐ **d)** $2 \div 1 =$ ☐

e) $8 \div 1 =$ ☐ **f)** $50 \div 10 =$ ☐

g) $4 \div 1 =$ ☐ **h)** $80 \div 10 =$ ☐

i) $10 \div 10 =$ ☐ **j)** $6 \div 1 =$ ☐

k) $3 \div 1 =$ ☐ **l)** $9 \div 1 =$ ☐

m) $70 \div 10 =$ ☐ **n)** $20 \div 10 =$ ☐

o) $40 \div 10 =$ ☐ **p)** $7 \div 1 =$ ☐

q) $100 \div 10 =$ ☐ **r)** $12 \div 1 =$ ☐

Skill 7.3 Dividing by whole numbers from 1 to 10 by using arrays (1).

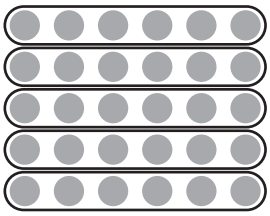
MM2.2 1 1 2 2 3 3 4 4
MM3.1 1 1 2 2 3 3 4 4

- Look at the number you divide by.
- Circle dots to make that number of equal groups.
- Count the number of dots in each group to complete the division.

Q. 30 ÷ 5 = ☐

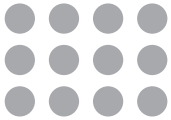
A. *30* ÷ *5* = ***6***

the number you divide by

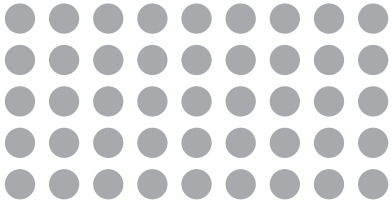


There are 6 dots in each group.

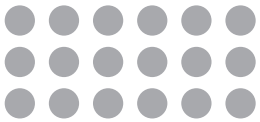
a) 12 ÷ 3 = 4



b) 45 ÷ 5 = ☐



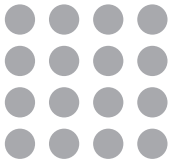
c) 18 ÷ 3 = ☐



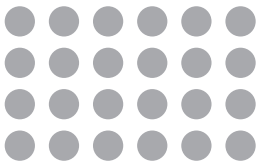
d) 15 ÷ 3 = ☐

e) 15 ÷ 5 = ☐

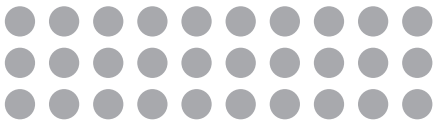
f) 16 ÷ 4 = ☐



g) 24 ÷ 4 = ☐



h) 30 ÷ 3 = ☐

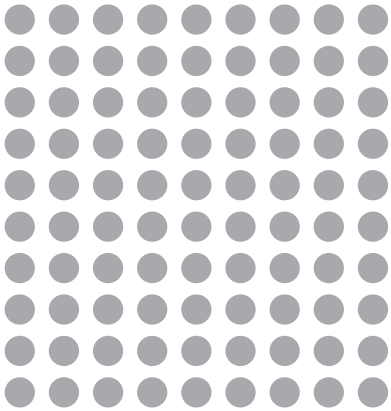


i) 14 ÷ 2 = ☐

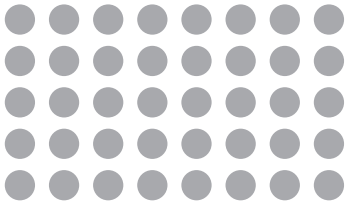
j) 20 ÷ 2 = ☐

Skill 7.3 Dividing by whole numbers from 1 to 10 by using arrays (2).

k) $90 \div 10 =$ ☐

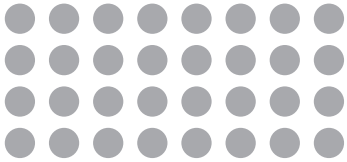


l) $40 \div 5 =$ ☐

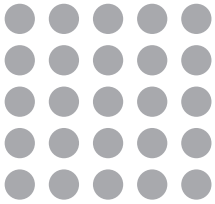


m) $12 \div 2 =$ ☐

n) $32 \div 4 =$ ☐

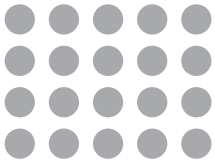


o) $25 \div 5 =$ ☐

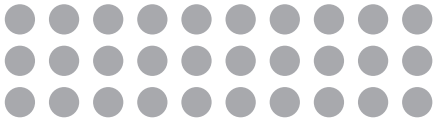


p) $27 \div 3 =$ ☐

q) $20 \div 4 =$ ☐



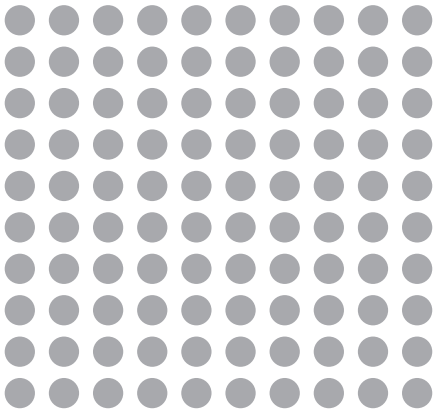
r) $30 \div 10 =$ ☐

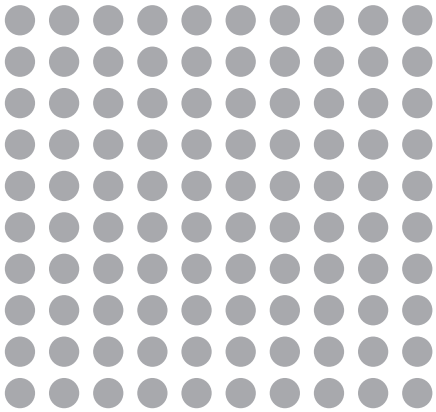


s) $27 \div 3 =$ ☐

t) $16 \div 2 =$ ☐

Skill 7.3 Dividing by whole numbers from 1 to 10 by using arrays (3).





u)

÷ 3	24	6	30	27	15

v)

÷ 5	30	20	5	45	10

w)

÷ 2	4	12	20	16	18

x)

÷ 10	80	20	50	90	30

y)

÷ 5	10	45	15	35	20

z)

÷ 4	20	28	8	16	40

A)

÷ 6	6	18	36	60	42

B)

÷ 10	90	10	40	20	60

C)

÷ 9	81	27	54	9	63

D)

÷ 7	49	35	14	21	70

E)

÷ 7	7	56	28	42	63

F)

÷ 8	40	16	48	64	32

Skill 7.4 Dividing by 1-digit numbers by using the standard algorithm.

- Divide the hundreds, tens and units by the single digit.
- Divide from left to right.

Q. $2\overline{)608}$

A. $2\overline{)608}$ → 304 (hundreds first!; hundreds, tens, units)

Hundreds:
$6 \div 2 = 3$ ⇒ 3 hundreds

Tens:
$0 \div 2 = 0$ ⇒ 0 tens

Units:
$8 \div 2 = 4$ ⇒ 4 units

a) $3\overline{)36}$ → 12 (tens first!)

b) $2\overline{)64}$

c) $4\overline{)84}$

d) $5\overline{)45}$

e) $8\overline{)48}$

f) $9\overline{)81}$

g) $6\overline{)24}$

h) $8\overline{)72}$

i) $6\overline{)36}$

j) $3\overline{)903}$

k) $3\overline{)306}$

l) $2\overline{)468}$

m) $2\overline{)602}$

n) $4\overline{)488}$

o) $4\overline{)804}$

p) $3\overline{)693}$

q) $2\overline{)824}$

r) $5\overline{)505}$

Skill 7.5 Finding the unknown number in a division number sentence.

- Guess the value of the missing number that will make the number sentence true. (Both sides of the number sentence must be equal).
- Fill in this value in the number sentence and check the division.
  Hint: Dividing by a smaller number gives a larger result.
  Dividing by a larger number gives a smaller result.
- Keep guessing and checking until the number sentence is true.

Q. $63 \div \square = 9$

A.
$63 \div ? = 9$ Guess 3.
$63 \div 3 = 21$ Dividing by 3 gives 21 (too big).
$63 \div \mathbf{7} = 9$ Guess 7.
Check again.

a) $18 \div \boxed{6} = 3$

$18 \div 3 = 6$ *(too big)*

$18 \div 6 = 3$ ✔

b) $15 \div \square = 5$

$15 \div 5 = 3$ *(not enough)*

c) $\square \div 2 = 8$

d) $\square \div 4 = 7$

e) $48 \div \square = 6$

f) $45 \div \square = 9$

g) $18 \div \square = 9$

h) $32 \div \square = 8$

i) $\square \div 7 = 3$

j) $\square \div 6 = 6$

k) $70 \div \square = 7$

l) $\square \div 5 = 6$