# Lesson 14

1   Solve the word problems:

a) A tourist walked *a* kilometers in 3 days. He walked *b* kilometers the first day, and *c* kilometers the second day. How many kilometers did the tourist walk the third day?

_____

b) Martha gathered *m* strawberries in a garden, and Mike gathered *n* strawberries. Among them, *k* strawberries were rotten. How many good strawberries did Martha and Mike gather?

_____

c) There were *a* passengers on a bus. At a bus stop, *x* passengers got off the bus and *y* passengers got onto the bus. How many passengers are on the bus now?

_____

d) A tailor needs *x* meters of fabric to make a dress and *y* meters of fabric to make a skirt. How much fabric does the tailor need to make 2 dresses and 3 skirts?

_____

e) There are *d* pencils in a box. In another box there are 5 pencils less. In the third box there are twice as many pencils as in the second box. How many pencils are in all three boxes?

_____
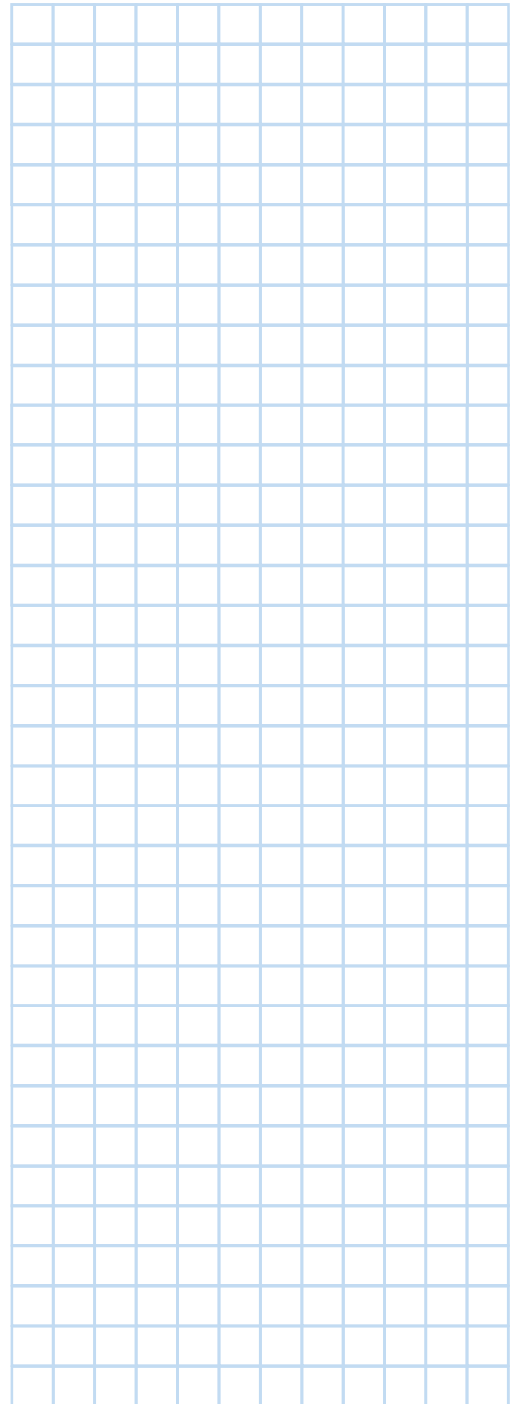
Multi-Digit Multiplication

$$a \times (b + c) = a \times b + a \times c$$

$$37 \times 24 = 37 \times 20 + 37 \times 4$$

```
    3 7
  × 2 4
  1 4 8
+ 7 4 t
  8 8 8
```

$=$

```
  1 2
    3 7
  ×   4
  1 4 8
```

$+$

```
  1
    3 7
  × 2 0
  7 4 t
```

2 Multiply:

```
    4 3
  × 3 8
```

```
    6 7
  × 5 2
```

```
    2 4
  × 8 7
```

3 There was a burglary in the Cat Island Cheese Factory again on Monday. Three suspects: PY, LJ, and JTM were caught and questioned.

PY: *LJ did not steal.*
LJ: *That is true.*
JTM: *PY is innocent.*

Later on the police found out the thief did tell the truth. However, at least one of the brothers was lying. Who was the thief this time?

81

4 Calculate:

$54{,}000 \div 1000 =$ $2700 \div 10 =$ $860{,}000 \div 100 =$

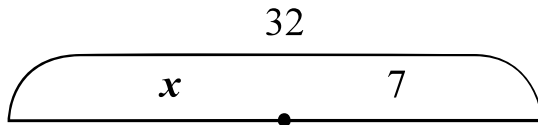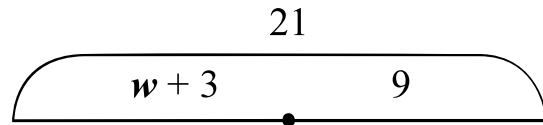$420 \times 100 =$ $5{,}400 \times 100 =$ $28 \times 1000 =$
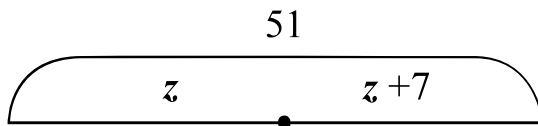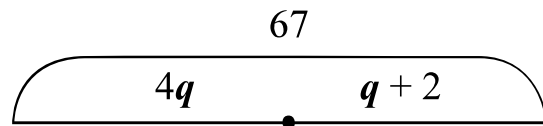
$3400 \div 100 =$ $290{,}000 \div 1000 =$ $34{,}000 \div 1000 =$

5 Write the equations according to the drawings:

32

x 7

_____

21

$w + 3$ 9

_____

51

z $z + 7$

_____

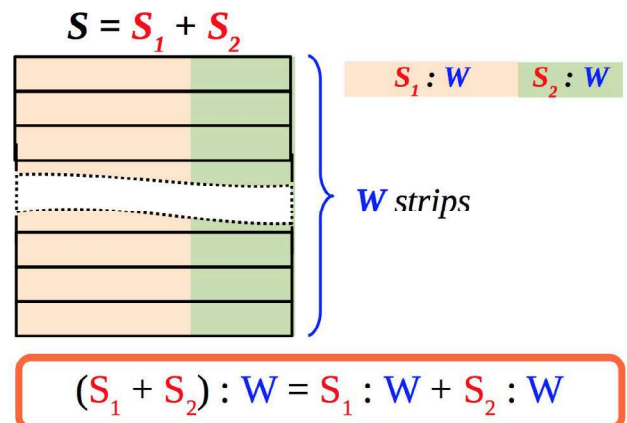67

$4q$ $q + 2$

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Dividing a Sum

6 Open parenthesis and find the answer when possible:
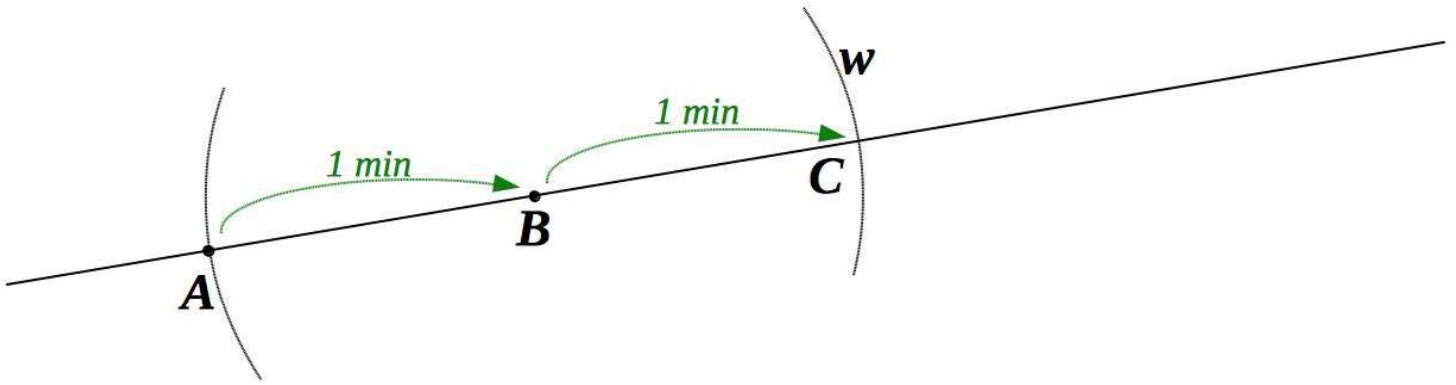
$(a + 6) \div 3 =$ _____

$(40 + 64) \div 8 =$ _____

$(7x + 14) \div 7 =$ _____
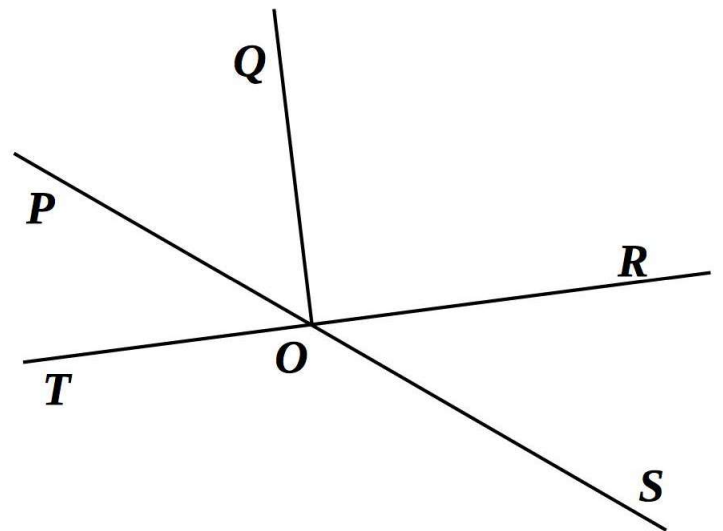
$(70 + 5) \div 5 =$ _____

$S = S_1 + S_2$

$S_1 : W$ $S_2 : W$

W strips

$(S_1 + S_2) : W = S_1 : W + S_2 : W$

7 A bug is crawling along a straight line. In one minute it moves from point *A* to point *B*. Next minute it moves from point *B* to point *C*. Use compass to find its position at the end of the:

a) third minute (point *D*);
b) fourth minute (point *E*);
c) fifth minute (point *F*).

8 Find all pairs of supplementary angles on the drawing and write them down.

Remember, you may not need all lines or may need some extra lines:

_____

_____

_____

_____

_____

9 Imagine that each shape was cut into two parts according to the drawings. For each shape finish the sketch of each of the two parts: