

Lesson 12

1 Solve the word problems:

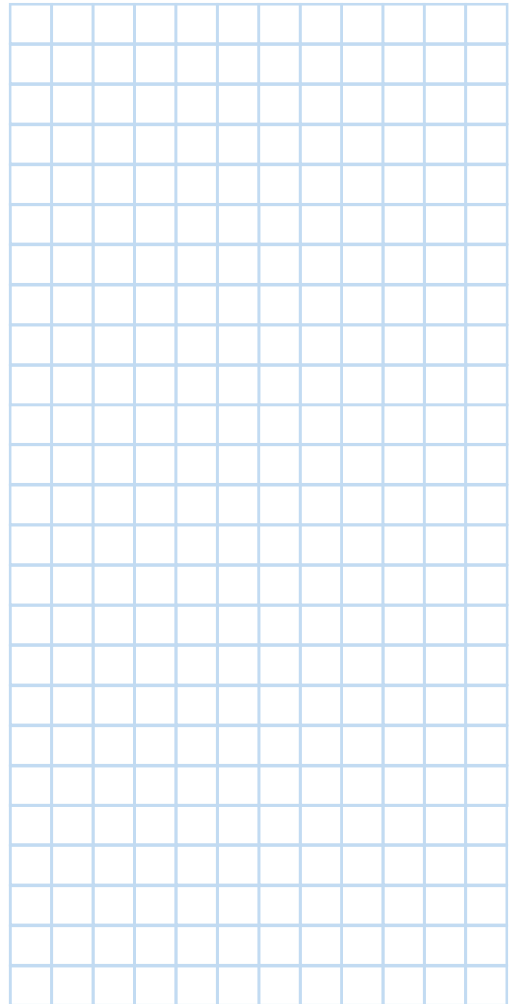
a) There are b liters of juice in 5 identical cans.
How many liters of juice are in 12 such cans?

b) W cans of juice cost \$20. How much would 5
such cans cost?

c) A bag holds c kg of rice. Another bag holds three
times as much rice as the first one. How much
more rice is in the second bag than in the first
one?

d) A truck delivered m kg of potatoes packaged 20
kg per box and n kg of carrots packaged 30 kg
per box. How many boxes of vegetables did the
truck deliver in total?

e) Jack needs to pack 5 toy dinosaurs per gift bag.
He has 43 dinosaurs. How many bags can he
pack?



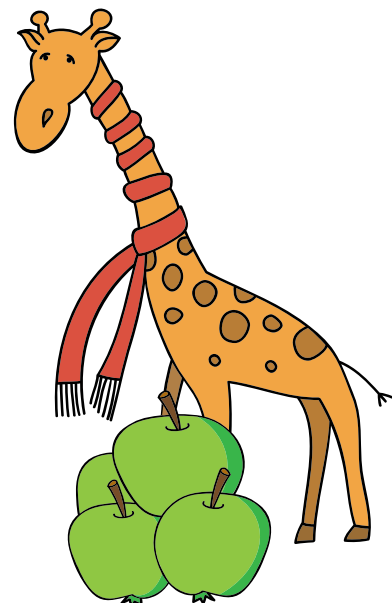
2 Divide with or without a remainder:

$$6 \overline{) 48}$$

$$7 \overline{) 32}$$

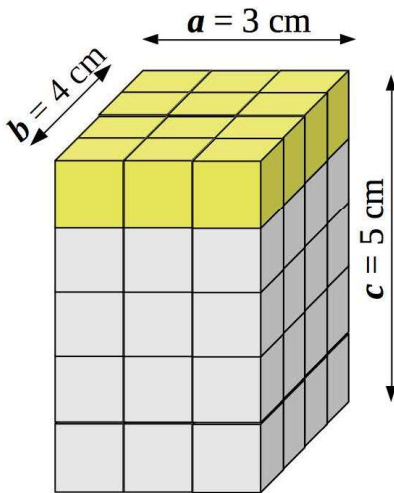
$$6 \overline{) 49}$$

$$7 \overline{) 61}$$

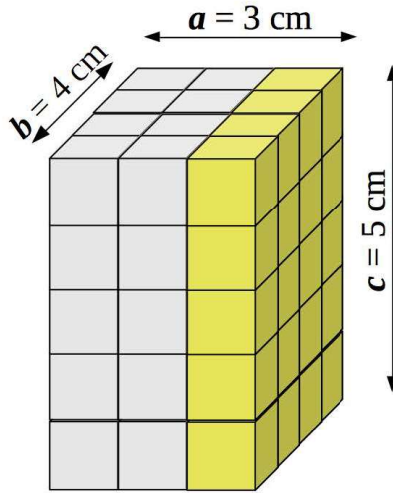


Associative Property of Multiplication

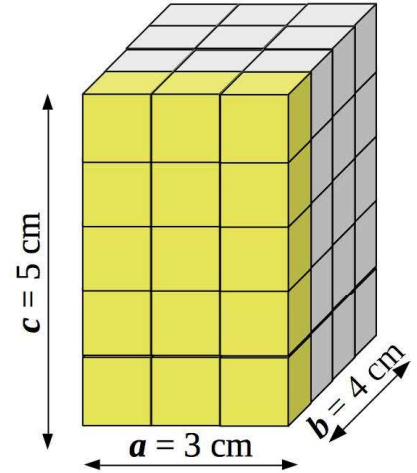
- 3 Match the formulas for calculating the volume of the parallelepiped to the appropriate drawing illustrating the calculation method:



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



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

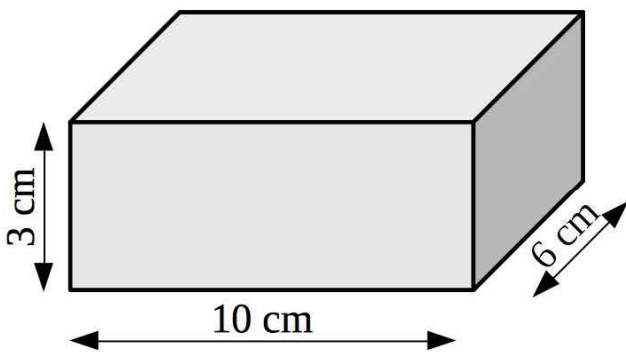


$$V = (a \times b) \times c$$

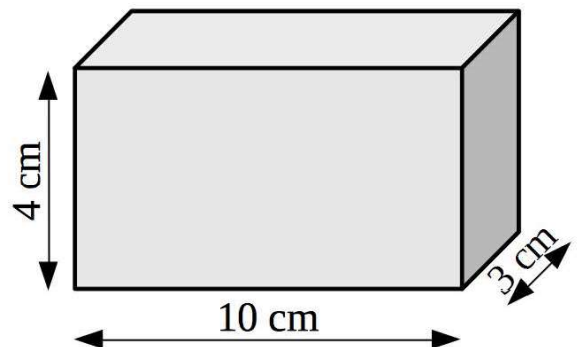
Associative Property of Multiplication

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

- 4 Find the volumes of the parallelepipeds below:

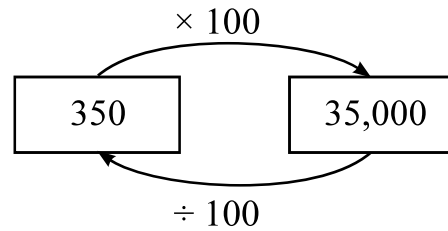
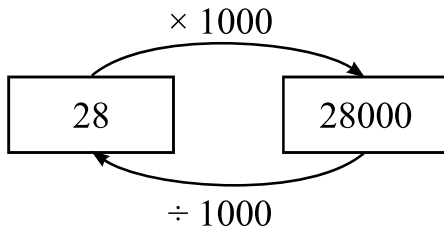


V = _____



V = _____

Multiplication and Division by 10, 100, 1000 ...



5

$28 \times 1000 = \underline{\hspace{2cm}}$

$35 \times 100 = \underline{\hspace{2cm}}$

$28000 \div 1000 = \underline{\hspace{2cm}}$

$3500 \div 100 = \underline{\hspace{2cm}}$

6

$22 \times 1000 = \underline{\hspace{2cm}}$

$49 \times 10,000 = \underline{\hspace{2cm}}$

$30 \times 1000 = \underline{\hspace{2cm}}$

$5200 \times 100 = \underline{\hspace{2cm}}$

$700 \times 10000 = \underline{\hspace{2cm}}$

$2300 \div 100 = \underline{\hspace{2cm}}$

$35000 \div 100 = \underline{\hspace{2cm}}$

$82000 \div 100 = \underline{\hspace{2cm}}$

To multiply two numbers with trailing zeros, first multiply the numbers without the zeros and then write at the back as many trailing zeros as there are in the two numbers.

1	2				
	2	3	0	0	
		8	0		
<hr/>					
1	8	4	0	0	0

7

Multiply:

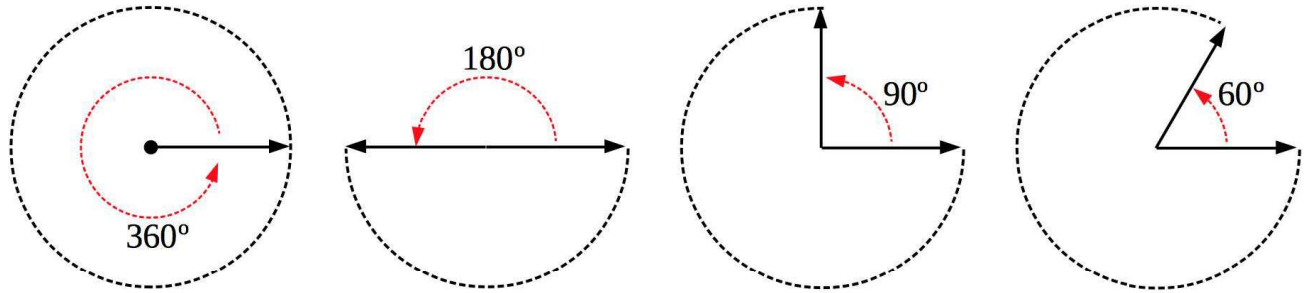
1	6	0	0
	8		
<hr/>			

3	6	0
	4	0
<hr/>		

1	7	0	
	9	0	0
<hr/>			

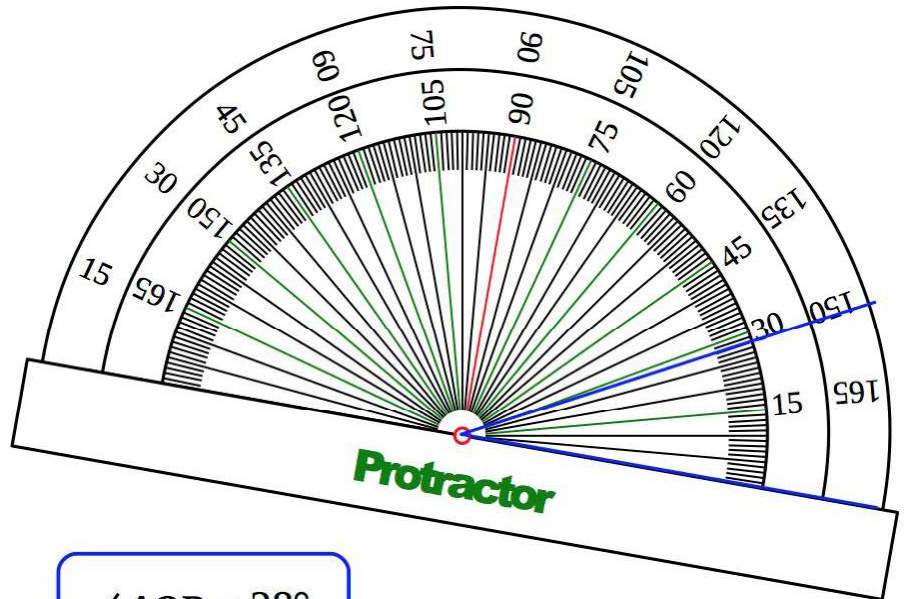
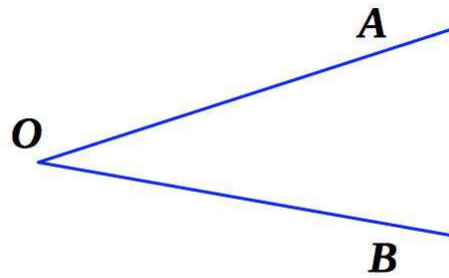
6	1	0	0
	7	0	0
<hr/>			

Measuring Angles with a Protractor



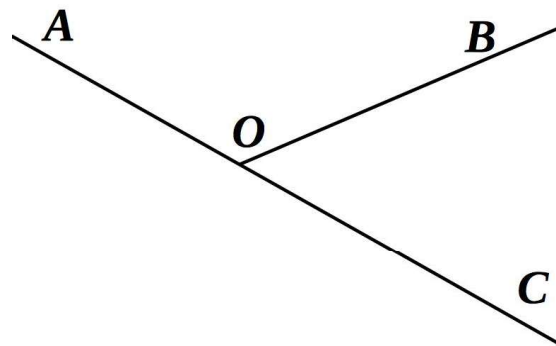
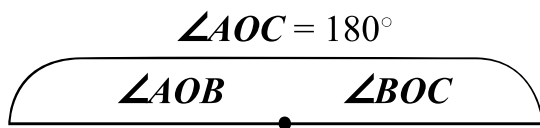
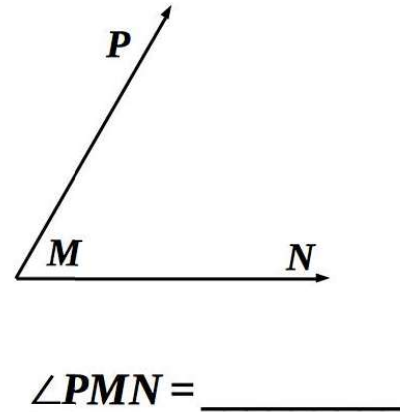
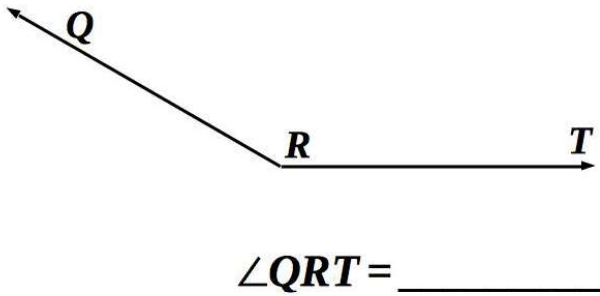
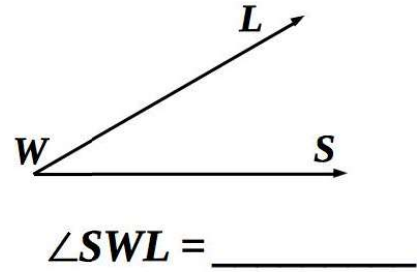
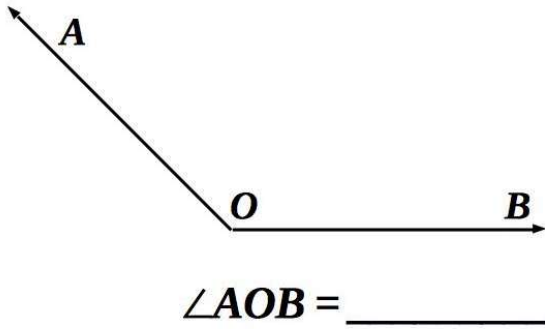
Measuring angles with a protractor:

1. Match a side of the angle with the protractor edge
2. Match the vertex of the angle with the pin hole of the protractor
3. Read the angle by the other side of the angle
4. Make sure that an acute angle measures less than 90° , while an obtuse angle measures greater than 90° .



$$\angle AOB = 28^\circ$$

8 Measure each angle with a protractor. Rank the angles on the line.



Two angles that add up to a straight angle are called **supplementary**.

9 Angles $\angle APQ$ and $\angle QPS$ are supplementary. Fill in the table:

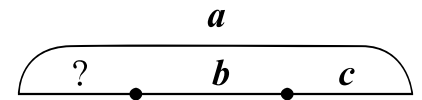
$\angle APQ$	30°	45°		120°	
$\angle QPS$			90°		20°

Subtracting a Sum from a Number

10 Compare:

$21 - 5 \square 21 - (5 + 1)$

$21 - x \square 21 - (x + 1)$



$$a - (b + c) = a - b - c$$

$43 - a \square 43 - (a + 3)$

$54 - w \square 54 - (w + x)$

$43 - (a + 3) \square 43 - a + 3$

$43 - (a + 3) \square 43 - a - 3$

11 Open the parentheses:

$118 - (a + b) = \underline{\hspace{2cm}}$

$47 - (9 + 27) = \underline{\hspace{2cm}}$

$29 - (5 + b) = \underline{\hspace{2cm}}$

$93 - (p + q + 1) = \underline{\hspace{2cm}}$

12 There was a burglary in the Cat Island cheese factory last Monday. The Cat Island police captured and questioned three mice: Little Joe, Foxy Tail and Pop Eye.

PY said: *I am innocent.*

LJ said: *FT did not steal.*

FT said: *LJ stole it.*

Later on, the police found that two of them lied.

Who stole the cheese?

