school nova ™

NEW MATERIAL

Tell the time on each clock:

a. _____ : _____

b. _____ : _____

c. _____ : _____

d. _____ : _____

e. _____ : _____

f. _____ : _____

g. _____ : _____

h. _____ : _____

1. Solve problems. Use a number line to illustrate it.

a) It usually takes Kristina 45 minutes to do her homework. If she starts her homework at 5:30 PM, what time will she finish?

+ 30 min.   + 15 min.

5:30 PM   6:00 PM   6:15 PM
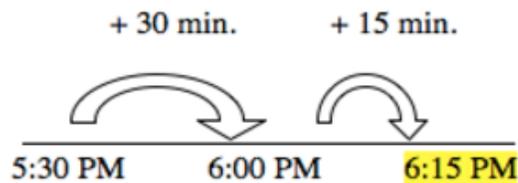
b) One day Kristina started her homework at 6:45 PM and finished her homework at 7:20 PM. How long did Kristina spend on her homework?

c) Another day, Kristina finished her homework at 5:05 PM after spending 40 minutes on her homework. What time did Kristina start her homework?

Dividing a number by one and by itself.

When any number is divided by 1, the quotient is the number itself.

(a) $7 \div 1 = 7$

(b) $53 \div 1 = 53$

$a \div 1 = a$

When a number (except 0) is divided by itself, the quotient is 1.

(a) $7 \div 7 = 1$

(b) $53 \div 53 = 1$

$a \div a = 1$

2. Calculate:

$7 \times 1 = \underline{\quad}$ $7 \div 7 = \underline{\quad}$ $5 \times 1 = \underline{\quad}$ $5 \div 5 = \underline{\quad}$

$9 \times 1 = \underline{\quad}$ $9 \div 9 = \underline{\quad}$ $a \times 1 = \underline{\quad}$ $a : a = \underline{\quad}$

$7 \times 1 = \underline{\quad}$ $7 \div 1 = \underline{\quad}$ $5 \times 1 = \underline{\quad}$ $5 \div 1 = \underline{\quad}$

$9 \times 1 = \underline{\quad}$ $9 \div 1 = \underline{\quad}$ $a \times 1 = \underline{\quad}$ $a : 1 = \underline{\quad}$

3. Solve the equations:

$x \div 9 = 1$ $5 \div y = 5$ $q \times 1 = 9$ $p \div 7 = 1$

$x = \underline{\quad}$ $y = \underline{\quad}$ $q = \underline{\quad}$ $p = \underline{\quad}$

4. a) Without calculations, write all expressions in the descending order (from the largest to smallest):

$2 \times 17, \quad 17 \times 4, \quad 17 \times 7, \quad 8 \times 17, \quad 17 \times 5, \quad 3 \times 17, \quad 17 \times 1$

_____

b) Without calculations, write all expressions in ascending order (from the smallest to largest):

$30 \div 1, \quad 30 \div 5, \quad 30 \div 3, \quad 30 \div 10, \quad 30 \div 6, \quad 30 \div 2, \quad 30 \div 30$

_____

5. Write all possible equalities below

$\square \times \square = \square$ $\square \times \square = \square$

$\square : \square = \square$ $\square : \square = \square$

$\square : \square = \square$ $\square : \square = \square$

a

$a \times b = S$

S

b

$\square \times \square = \square$
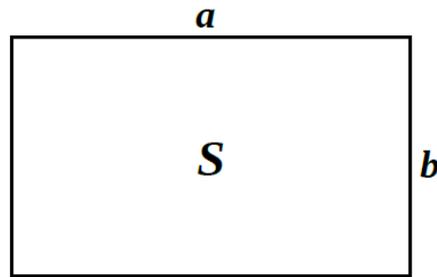
$S : \square = \square$

$\square : \square = \square$

Area of compound shapes.

4cm
3cm
3 cm
7 cm
4cm
7cm

4cm
3cm
3 cm
7 cm
4cm
7cm

(3x4) + (7x4)
3x4=12
7x4=28
28+12 = 40cm^2

4cm
3cm
3 cm
7 cm
4cm
7cm

(4x3) + (7 x 4)
4x3 = 12
7x4 = 28
28+12 = 40cm^2

4cm
3cm
3 cm
7 cm
4cm
7cm

(7 x 7) - (3 x 3)
7x7 = 49
3x3 = 9
49-9 = 40cm^2

3
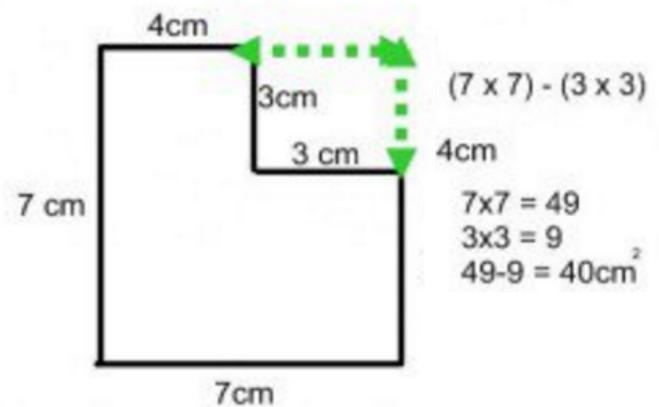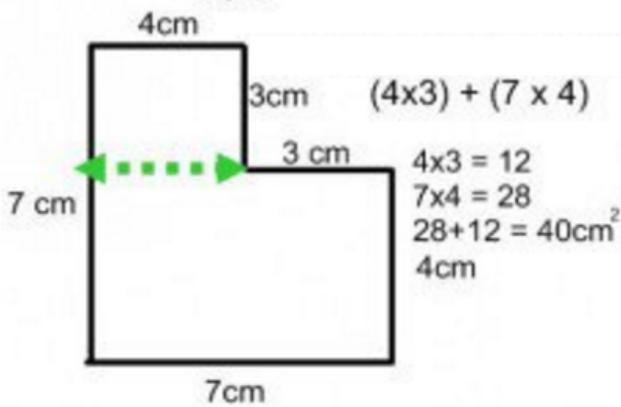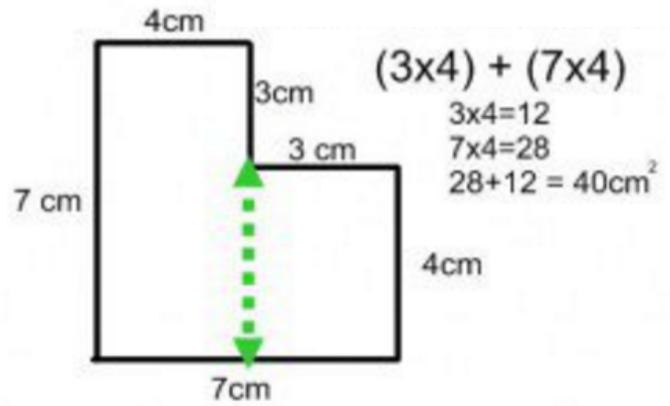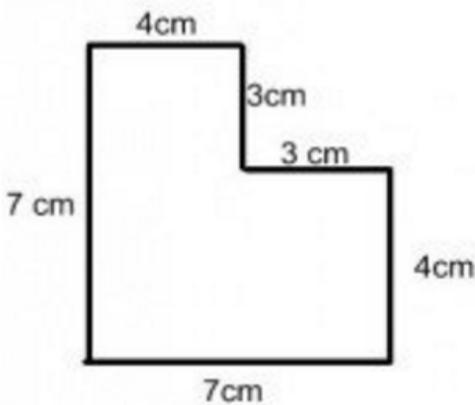
REVIEW

6.

a) Plot the following numbers on the number line: 450, 980, 630, 125, 220, 360, 800

$$\longleftarrow \overset{|\quad\quad|\quad\quad|\quad\quad|\quad\quad|\quad\quad|\quad\quad|\quad\quad|\quad\quad|\quad\quad|\quad\quad|}{0\quad 100\quad 200\quad 300\quad 400\quad 500\quad 600\quad 700\quad 800\quad 900\ 1000}\longrightarrow$$
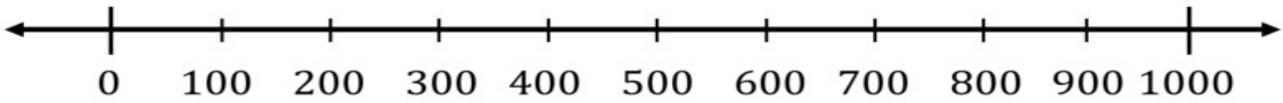
Choose different pairs of numbers from those you plotted on the number line to a comparison correct.

_____ > _____

_____ > _____

_____ > _____

_____ < _____

_____ < _____

_____ < _____

b) Is the number *a* greater or less than the number *b* ?

$$\longleftarrow \overset{\qquad\qquad a \qquad b}{\underset{0\qquad\qquad\qquad\qquad\qquad\qquad\qquad\qquad 1000}{|\qquad\quad\bullet\quad\bullet\qquad\qquad\qquad\qquad\qquad|}}\longrightarrow$$
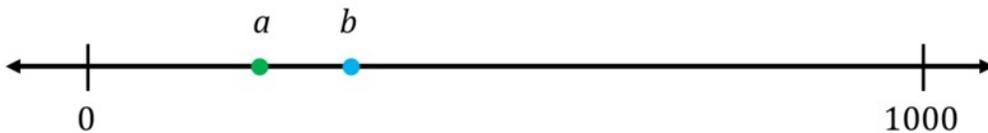
How do you know?

7.

Compare if possible using >, <, or =.

$6 \times 2 \;\square\; 6 \div 2$ $\qquad\qquad$ $c \times 2 + c \;\square\; c \times 3$ $\qquad\qquad$ $5 \times 2 \;\square\; 5 + 2$

$7 \times 3 \;\square\; 6 + 6 + 6$ $\qquad$ $y \times 4 + y \times 2 \;\square\; y \times 5$ $\qquad$ $q \times 2 \;\square\; q \div 2$

$6 \div 3 \;\square\; 6 \div 2$ $\qquad\qquad$ $24 \div 6 \;\square\; 24 \div 4$ $\qquad\qquad$ $t \div 2 \;\square\; t \div 3$

8.

Use the rectangles to visualize each problem, construct equations and to solve them:

6

30 | x
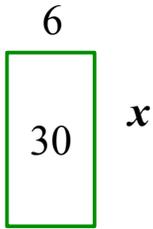
$x \times 6 = 30$

_____

_____

_____

$42 \div y = 7$

_____

_____

_____

$9 \times z = 72$

_____

_____

_____

$t \div 6 = 8$

_____

_____

_____


Did you know …

Ever since man first noticed the regular movement of the Sun and the stars, we have wondered about the passage of time. Prehistoric people first recorded the phases of the Moon some 30,000 years ago, and recording time has been a way by which humanity has observed the heavens and represented the progress of civilization.

First Clocks

Candle Clocks

Marked candles were used for telling the time in China from the sixth century CE.

A candle marked for use as a timer
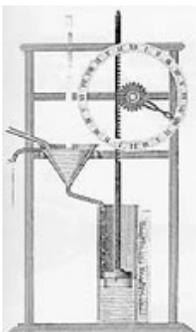
Water Clocks

The water clock, or clepsydra, appears to have been invented about 1,500 BCE and was a device, which relied on the steady flow of water from or into a container.

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