

### Homework for Lesson № 25

**1** Make all necessary **drawings** and solve the word problems:

**A.** A bakery makes  $x$  boxes of cookies and  $y$  boxes of cupcakes each day. In each box of cookies there are 20 cookies. There are 6 cupcakes in each box. How many more cookies does the bakery make each day than cupcakes?

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**B.** The ticket prices to a zoo are  $a$  dollars for adults and  $s$  dollars for students. How much will it cost for a group of 100 students, 8 parents, and 12 teachers to attend the zoo?

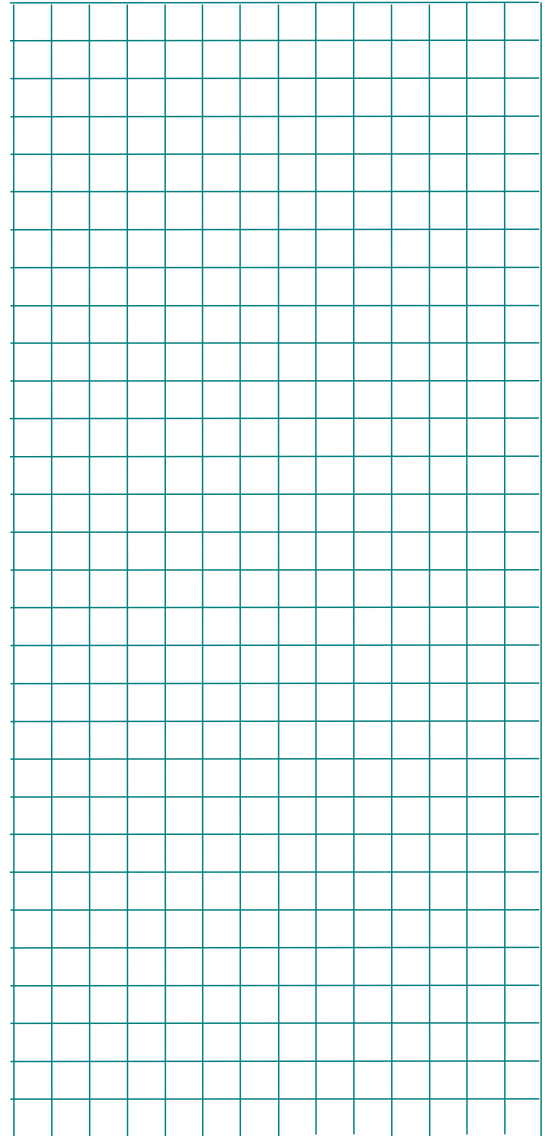
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**C.** A school has \$300 for a museum trip. A children's ticket costs \$5, an adult ticket costs \$7. There are 48 students going on the trip. How many teachers can accompany them?

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**2** Solve the equations *in your notebook* and copy your answers here:

$$x : 5 - 12 = 37$$

$$(54 - x) \times 3 = 93$$

$$10x - 8x = 4$$

$$x = \underline{\hspace{2cm}}$$

$$x = \underline{\hspace{2cm}}$$

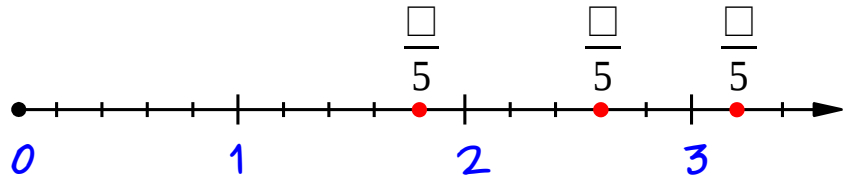
$$x = \underline{\hspace{2cm}}$$

**3** Remove parenthesis:

$$3 \cdot (2x - 4) = \underline{\hspace{2cm}}$$

$$(4w + 16) : 2 = \underline{\hspace{2cm}}$$

**4** Which fractions are marked on the number line?



**5** Compare the results of divisions with remainder and into fractions:

$$9 : 5 = \frac{\square}{\square} = 1 \frac{\square}{\square}$$

$$9 : 4 = \square \text{ rem } \square$$

$$13 : 5 = \frac{\square}{\square} = 2 \frac{\square}{\square}$$

$$13 : 5 = \square \text{ rem } \square$$

$$16 : 5 = \frac{\square}{\square} = 3 \frac{\square}{\square}$$

$$16 : 5 = \square \text{ rem } \square$$

**6** Convert improper fractions into mixed numbers:

$$\frac{13}{4} = \square \frac{\square}{\square}$$

$$\frac{31}{5} = \square \frac{\square}{\square}$$

$$\frac{17}{6} = \square \frac{\square}{\square}$$

$$\frac{22}{9} = \square \frac{\square}{\square}$$

$$\frac{16}{3} = \square \frac{\square}{\square}$$

$$\frac{13}{2} = \square \frac{\square}{\square}$$

$$\frac{12}{5} = \square \frac{\square}{\square}$$

$$\frac{27}{4} = \square \frac{\square}{\square}$$

$$\frac{8}{7} = \square \frac{\square}{\square}$$

**7** Replace multiplication by a fraction with two sequential operations with whole numbers:

$$20 \times \frac{4}{5} = 20 \times \square : \square =$$

$$35 \times \frac{4}{7} = 35 : \square \times \square =$$

$$18 \times \frac{4}{3} = 18 \times \square : \square =$$

$$9 \times \frac{4}{9} = 9 : \square \times \square =$$

8

Use the sample if needed to calculate:

$1 : \frac{1}{4} =$

$3 : \frac{1}{5} =$

$5 : \frac{1}{3} =$

$7 : \frac{1}{3} =$

$2 : \frac{1}{2} =$

$3 : \frac{1}{3} =$

$4 : \frac{1}{4} =$

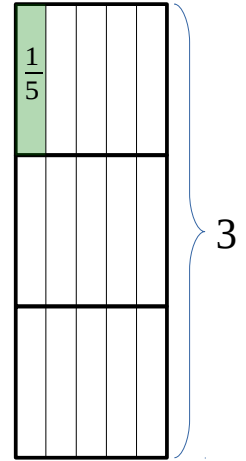
$5 : \frac{1}{5} =$

$7 : \frac{1}{5} =$

$2 : \frac{1}{4} =$

$3 : \frac{1}{9} =$

$4 : \frac{1}{10} =$



$$3 : \frac{1}{5} = 15$$

9

Solve the equations:

$$\frac{1}{3}x + 5 = 7$$

$$\frac{1}{3}x =$$

$$x =$$

$$x =$$

$$12 - \frac{1}{6}x = 8$$

$$\frac{1}{6}x =$$

$$x =$$

$$x =$$

$$\frac{7}{2}x = 14$$

$$\frac{1}{2}x =$$

$$x =$$

$$x =$$

10

Points  $A$ ,  $B$ , and  $C$  are vertices of parallelogram  $ABCD$ . Plot no more than two auxiliary circles to find point  $D$ ; record your algorithm.

1. Parallelograms have two pairs of parallel sides.

2. Their parallel sides are equal.

1. Plot  $v = \text{Circ}( \quad , |AB| )$

2. Plot  $w = \text{Circ}( \quad , \quad )$

3. \_\_\_\_\_

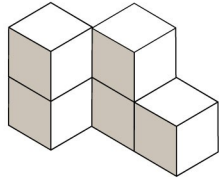
$B$

$C$

$A$



12 Draw the top, side and front views for the shape below.



Top view			Side view			Front view		

13 Draw a shape that has the following top, side and front views.

Top view			Side view			Front view		

14 Draw the top views of the missing kitchenware.