

1

*Multiplication Exercise.*

Put the timer on for three (3) minutes and solve as many problems as you can.

Take a color pencil or pen and do the rest of the problems

(If you didn't finish it during the 3 minutes) 😊




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Multiplication by 2, 3, 4, 5

$2 * 6 =$

$5 * 2 =$

$2 * 8 =$

$3 * 3 =$

$4 * 7 =$

$9 * 5 =$

$5 * 6 =$

$6 * 5 =$

$5 * 2 =$

$7 * 3 =$

$5 * 3 =$

$7 * 5 =$

$3 * 8 =$

$2 * 3 =$

$2 * 2 =$

$6 * 3 =$

$2 * 9 =$

$6 * 4 =$

$3 * 9 =$

$3 * 4 =$

$3 * 5 =$

$3 * 3 =$

$5 * 7 =$

$7 * 2 =$

$3 * 5 =$

$4 * 3 =$

$2 * 6 =$

$9 * 2 =$

$5 * 3 =$

$8 * 5 =$

$2 * 6 =$

$7 * 2 =$

$5 * 5 =$

$9 * 4 =$

$3 * 4 =$

$8 * 4 =$

$3 * 2 =$

$4 * 5 =$

$5 * 2 =$

$2 * 2 =$

$2 * 6 =$

$8 * 2 =$

$2 * 9 =$

$5 * 5 =$

$3 * 9 =$

$9 * 3 =$

$2 * 3 =$

$8 * 5 =$



A triangle is a closed shape with three straight sides that meet at three vertices. It is a polygon.  
 Review the classification of the triangles:

2

**Types of triangles:**

By sides:





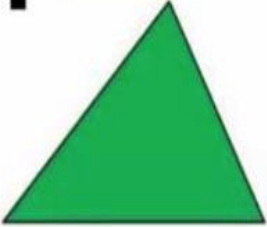
- a) **Scalene triangle** – no equal angles and no equal sides
- b) **Isosceles triangle** – 2 equal sides and 2 equal angles
- c) **Equilateral triangle** – 3 equal sides and 3 equal angles

By angles:

- a) **Right triangle**– has a right angle
- b) **Obtuse triangle** – has an angle that larger than a right angle
- c) **Acute triangle** – all angles are smaller than a right angle

3

Determine what triangle it is by its sides and by its angles (USE THE RIGHT-ANGLE TEMPLATE OR PROTRACTOR):

| Picture of a triangle   | Type of the triangle |
|---|----------------------|
|    | <hr/> <hr/>          |
|   | <hr/> <hr/>          |
|  | <hr/> <hr/>          |
|  | <hr/> <hr/>          |
|  | <hr/> <hr/>          |

4

Using a ruler and a protractor, draw the following shapes:

a) A shape with 3-line segments that is not a triangle.

b) A right isosceles triangle  $\triangle ABC$

c) an obtuse isosceles triangle  $\triangle PQ$

5

Compare expressions using  $<$ ,  $>$ ,  $=$

$$5 \times 6 - 5 \quad \underline{\hspace{1cm}} \quad 5 \times 5 + 5$$

$$7 \times 6 + 7 \quad \underline{\hspace{1cm}} \quad 6 \times 7 + 6$$

$$48 + 20 \quad \underline{\hspace{1cm}} \quad 4 \times 5 + 50$$

$$24 + 32 \quad \underline{\hspace{1cm}} \quad (32 - 24) \times 7$$

While helping their mother to unload a dishwasher, Victoria put 5 plates on each of 3 shelves of the kitchen cabinet and Julia put 4 plates on the each of 3 shelves. How many plates did both put in the kitchen cabinet?

6

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7

Find the greatest missing number so that an inequality will still be correct.

$$6 \times \underline{\hspace{1cm}} < 45$$

$$7 \times \underline{\hspace{1cm}} < 40 - 5$$

$$27 + 8 > 6 \times \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} \times 9 < 32$$

$$\underline{\hspace{1cm}} \times 5 < 4 \times 7$$

$$8 \times \underline{\hspace{1cm}} < 20 + 27$$

8

Find the missing numbers to make an equality correct:

$$15 \times 2 = 5 \times \underline{\hspace{1cm}}$$

$$12 \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}} \times 24$$

$$14 \times 4 = 8 \times \underline{\hspace{1cm}}$$

$$15 \times 4 = 10 \times \underline{\hspace{1cm}}$$

$$25 \times \underline{\hspace{1cm}} = 10 \times 10$$

$$25 \times 3 = 5 \times \underline{\hspace{1cm}}$$

9

Find ONLY the last digit of the product:

$$45321 \times 423 \quad \underline{\hspace{1cm}}$$

$$87325 \times 938162 \quad \underline{\hspace{1cm}}$$

$$93824 \times 156832 \quad \underline{\hspace{1cm}}$$

$$73815 \times 38915 \quad \underline{\hspace{1cm}}$$

$$6783 \times 982713 \quad \underline{\hspace{1cm}}$$

$$49812 \times 390 \quad \underline{\hspace{1cm}}$$

10

Open parentheses and simplify the expressions (find and cancel all like-terms):

$300 - (a + b) =$  \_\_\_\_\_

$300 - (a + 2) + (b - 100) =$  \_\_\_\_\_

$29 - (5 + b) =$  \_\_\_\_\_

$29 - (5 + a) + (a + 15) =$  \_\_\_\_\_

$70 - (b - a) =$  \_\_\_\_\_

$70 - (2 - 1) - (c - d) =$  \_\_\_\_\_

$65 - (a + b + 5) =$  \_\_\_\_\_

$65 - (1 + 2 + 5) + (d - a + b) =$  \_\_\_\_\_

11

Compare using  $<$ ,  $>$  or  $=$ :

$810 \text{ cm} \text{ \_\_\_\_ } 8 \text{ m}$

$7 \text{ m} \text{ \_\_\_\_ } 75 \text{ cm}$

$1 \text{ m} \text{ \_\_\_\_ } 100 \text{ mm}$

$6 \text{ m } 57 \text{ cm} \text{ \_\_\_\_ } 657 \text{ cm}$

$360 \text{ cm} \text{ \_\_\_\_ } 3 \text{ m } 60 \text{ mm}$

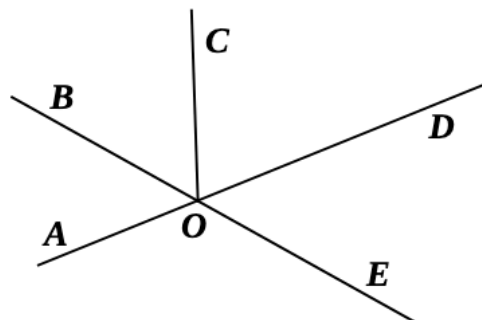
$365 \text{ mm} \text{ \_\_\_\_ } 36 \text{ m } 5 \text{ mm}$

12

Find all pairs of supplementary angles on the drawing. Measure these angles with a protractor. Write down your results. Make sure supplementary angles add up to  $180^\circ$ .

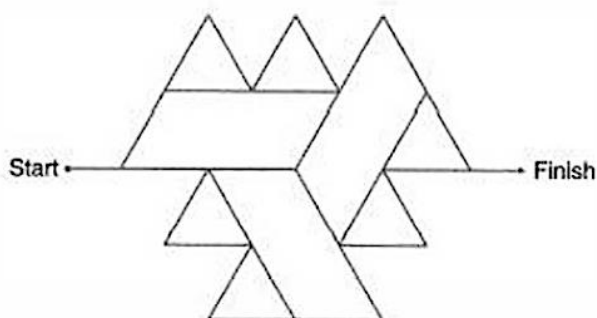
$\angle AOB = 50^\circ$  and  $\angle BOD =$  \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



13

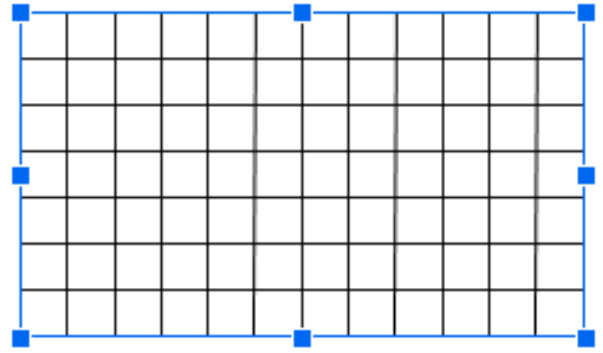
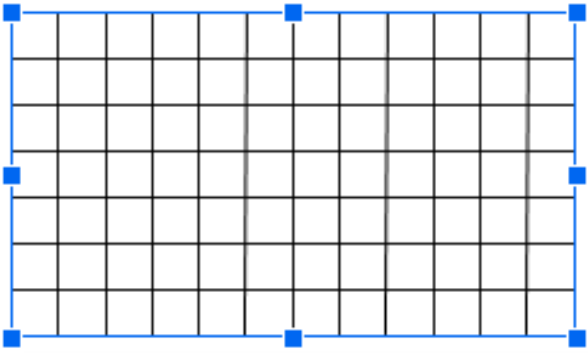
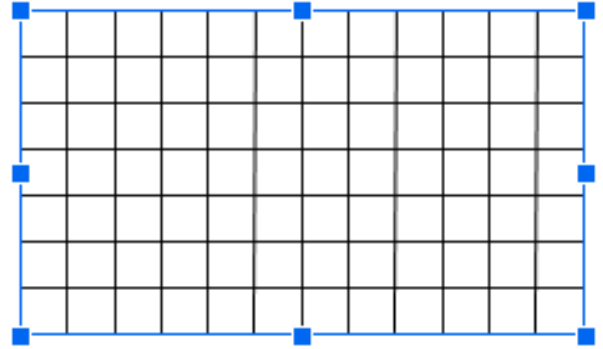
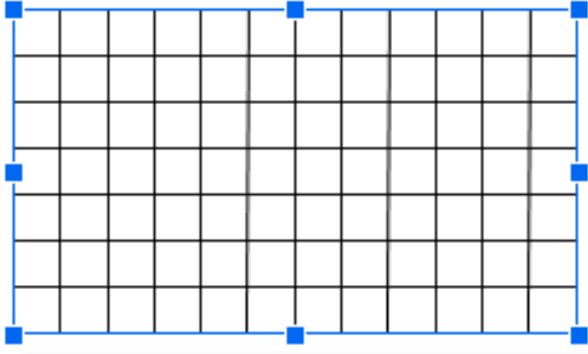
Complete angle maze below by tracing a path from start to finish that has only acute angles.



14

The **perimeter** of a polygon is the sum of the lengths of all its sides.

Perimeter of quadrilateral is 16 cm (assume that each cell is 1cm). Draw several different quadrilaterals with the same perimeter – 16 cm.



15

Solve for  $x$  and check your answers:

$$x + 23 = 100 - 62$$

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$$85 - x = 42 + 45$$

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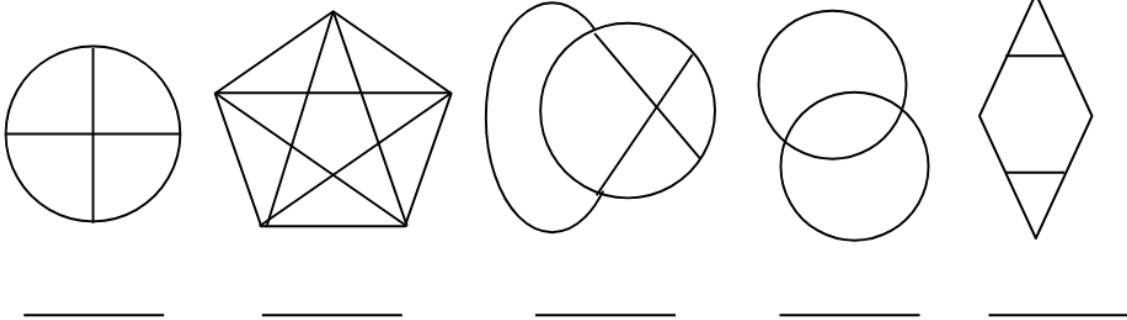
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16

Try to trace every line in each diagram without lifting a pencil or tracing the same line twice. Is it possible to do for all those five diagrams?




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