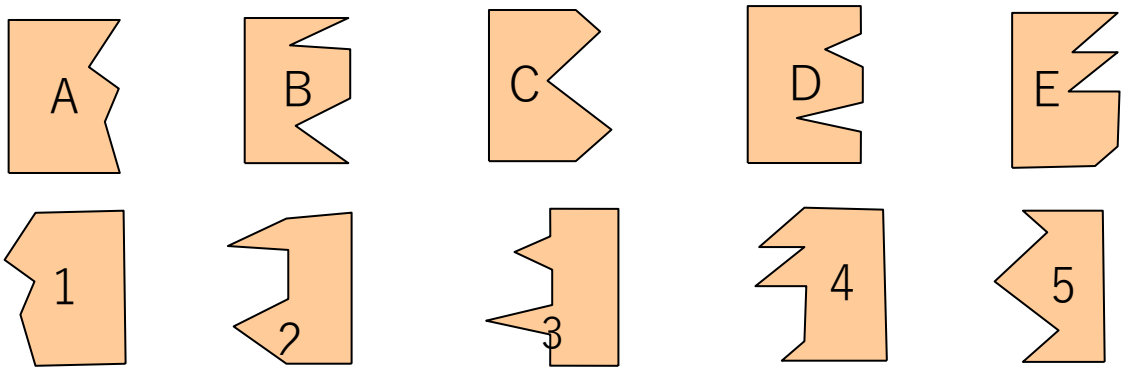
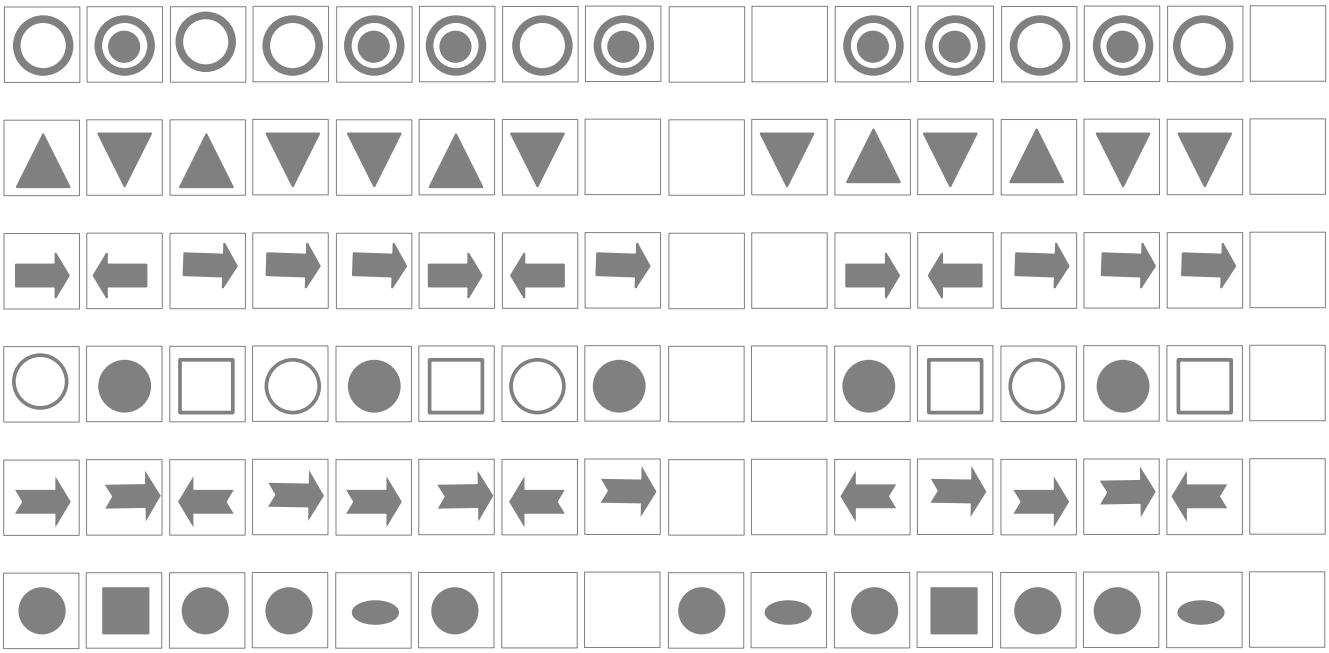
Math 3 Homework 21

Practicing Math Kangaroo

1 Match each shape from the top row with a shape from the bottom row that forms a rectangle when put together.



2 Identify each pattern and draw the missing symbols.



3 Find the 3-digit numbers, where the digit in its ten places is twice the digit in its hundreds place. The digit in its one place is 4 times the digit in its hundreds place. Write down all numbers that satisfy these conditions.

_____

4

1m =10 dm = 100 cm	1 m^2 = 100 dm^2 =10,000

$2\ cm^2 + 5\ cm^2 =$ _____ cm^2

$15\ cm^2 - 7\ cm^2 =$ _____ cm^2

$500\ cm^2 + 1\ dm^2 =$ _____ cm^2

$3\ dm^2 - 2\ dm^2 =$ _____ dm^2

$11\ dm^2 + 7\ dm^2 =$ _____ dm^2

$500\ cm^2 + 1\ dm^2 =$ _____ dm^2

5

Compare using >, <, or =.

$200\ cm^2 \square 3\ dm^2$ $500\ dm^2 \square 5\ m^2$ $30\ dm^2 \square 1\ m^2$

$300\ dm^2 \square 300\ m^2$ $70\ cm^2 \square 7\ dm^2$ $20\ m^2 \square 200\ cm^2$

$7\ m^2 \square 700\ dm^2$ $9\ m^2 \square 900\ cm^2$ $9\ dm^2 \square 900\ cm^2$

$600\ dm^2 \square 8\ m^2$ $6\ dm^2 \square 80\ cm^2$ $4\ m^2 \square 400\ cm^2$

6

One-digit-one-line Long Multiplication. **Remember about Place Value!**

a) 23 × 11 = b) 234 × 111 = c) 2345 × 1111 =

7.

Solve for x:

a) $160 \div x + 84 = 124$ b) $(x + 84) \div 16 = 18$

Report the time you spent: _____

8 Long Division:

a) 1,112 ÷ 8 = b) 3,912 ÷ 8 =

9. The New Year's party was in the big, nice room. The room had a shape of a rectangle with a length of 20 meters and a width of 10 meters. The room was decorated with multicolor lights, each light was 60 centimeters apart from the next one. How many lights were used to decorate the room?

_____

_____

_____

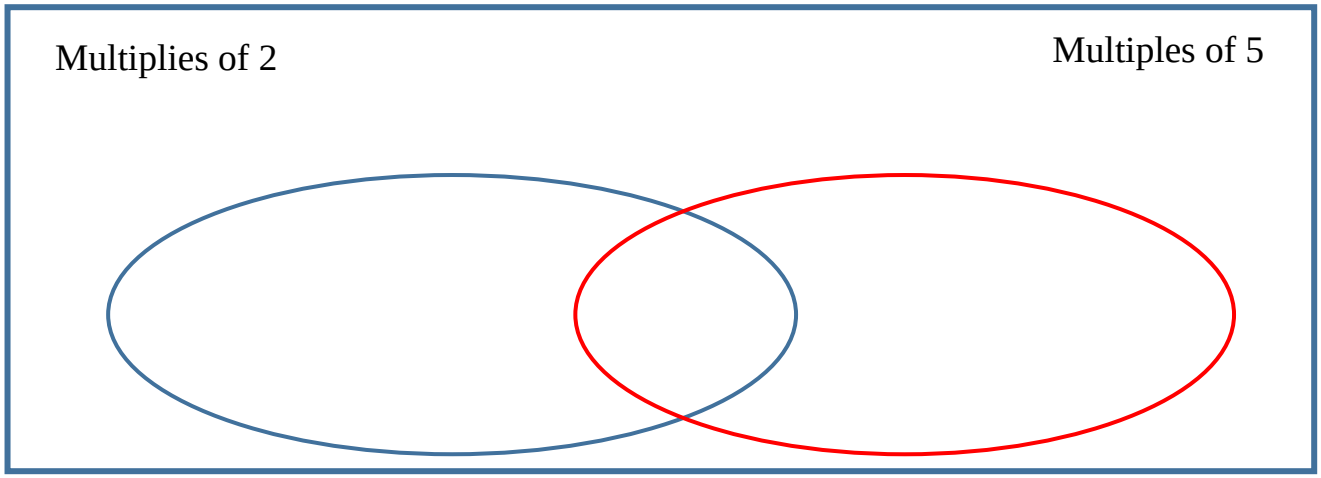
10 16 children in the class like apples. 11 children in the class like bananas. 7 children in the class like both apples and bananas. 3 children in the class do not like any fruits. How many children are there in the class? Draw the Venn diagram to help yourself to solve the problem. Draw a Venn diagram if needed.

11 Postal workers must not lift more that 16 kg. There are 6 packages with a different weight: 3100g, 4900g, 3950g, 7200g, 3700g and 8900g.
Arrange these packages into 2 piles so that each pile can be lifted safely.

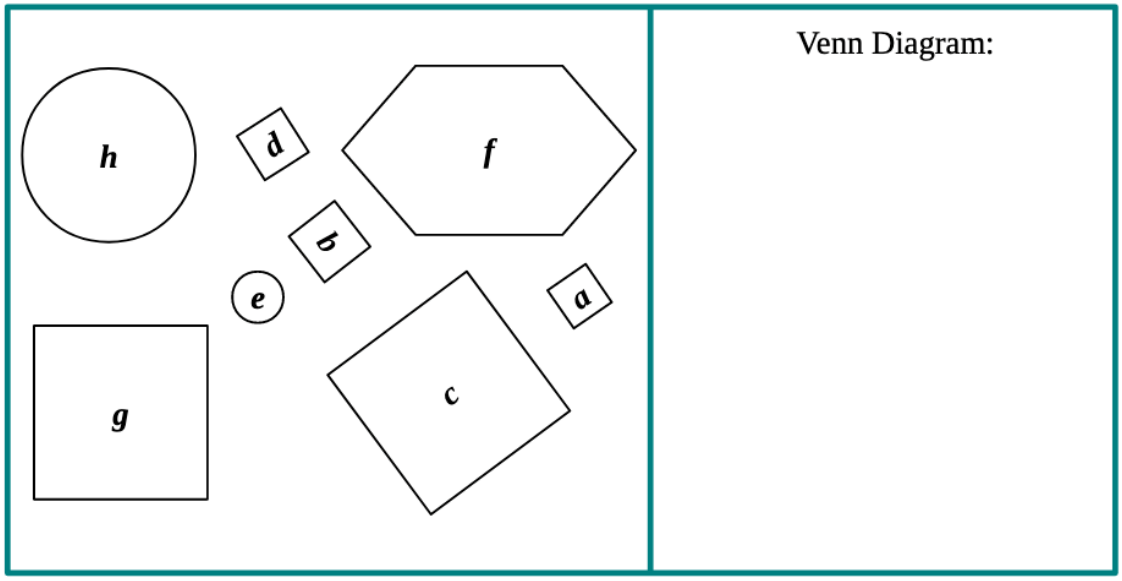
1) _____

2) _____

12 Put the following numbers into Venn diagram: 785, 1040, 998, 48330, 7585, 48021, 31970, 72123, 60075, 59927, 4294, and 8599 .



13 In the picture below set P is a set of squares and set Q is a set of Large shapes. Draw a Venn Diagram for these sets.



Which shapes belong to set P, but not to set Q? _____
Which shapes belong to set Q, but not to set P? _____
Which shapes belong to both sets? _____

Fill in symbols belong or does not belong ∈, ∉:

a ____ P	f ____P	e ____P	c ____P
a ___Q	c ____Q	g____Q	d _____Q

14

a) List all 2-digit numbers which can be divided by 8: _____

b) List all numbers between 60 and 90 what can be divided:

By 3: _____

By 4: _____

By 6: _____

15

A road construction team is repairing a road. It has repaired 156 meters. The remaining part is 5 times the part repaired. What is the total length of the road? Draw a diagram to help yourself solve a problem.

16

a) Draw a quadrilateral in which all of the angles are different sizes. Label the angles.

b) Draw a quadrilateral in which two of the angles are the same size. Label the angles.

17

Add parenthesis to the following equalities to make them correct:

$3 \times 174 + 26 = 600$

$168 \div 2 \times 3 = 28$

$100 \div 5 + 5 - 5 \times 2 = 0$

$100 \div 5 + 5 - 5 \times 2 = 20$

$100 \div 5 + 5 - 5 \times 2 = 40$

18

Write suitable signs from +, –, ÷, × OR ( ) into the following number sentences to make all equalities correct.

Example: 4 + 4 – 4 – 4 = 0

a) 4 4 4 4 = 1 b) 4 4 4 4 = 2 c) 4 4 4 4 = 3