Show what you Know about Math!

Name_____

 How do you feel about Math? Circle one.

Recall: We can represent a number several ways

Standard Form	Expanded form	Word form
86 458	80 000 + 6000 + 400 + 50 + 8	Eighty-six thousand four hundred fifty-eight

1) Write **301 982** in word form.

2) Write **40 000 + 3 000 + 700 + 60 + 2** in standard form.

3) Write the number
seven hundred fifty-six thousand nine hundred thirty-seven in expanded form.

4) Write the number **three million two hundred thirty-nine thousand thirty-seven** in standard form.

5) Write the value of the underlined digit.
6<u>2</u> 421 384

6)
Write the value of the underlined digit in words or fraction form.

81.3<u>7</u>5

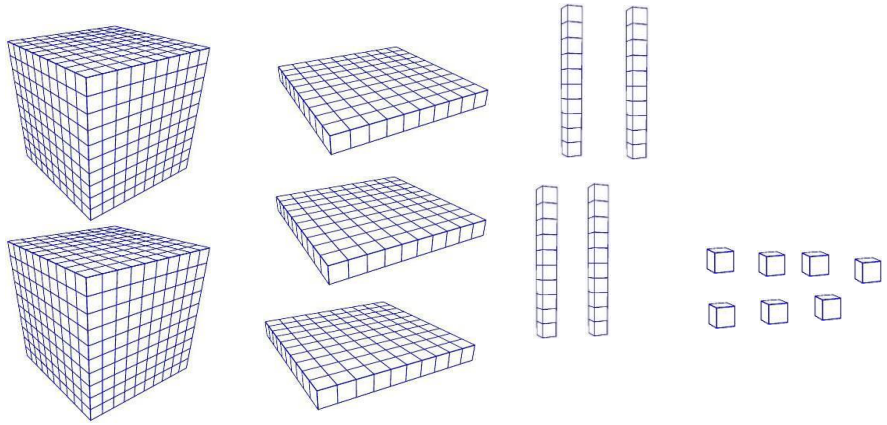
7) Write a number greater than 4.1 and less than 4.2

8) Write the number 2.3 billion in standard form.

9) Fill in the blanks to continue the counting pattern:

54 997 , 54 998 , _____ , _____ , _____

10) Write the number that is represented by these base ten blocks in **standard form.**



Note:
= 1 whole

11) Order these numbers from **least to greatest.**

618 951	**800 279**	**99 856**	**665 104**

_____ _____ _____ _____

12) Fill in the blanks (Continue the pattern)..

8 452, 8 462, 8 472, 8 482, _____ , _____ ,

_____

13) **Estimate** the sum of the following. Show your strategy.

3 395 + 4 623

14) Add. **15 341 + 13 201 =**

15) Add.

$$\begin{array}{r} 341\,422 \\ +\ 298\,381 \\ \hline \end{array}$$

16) Subtract.

$$\begin{array}{r} 867\,386 \\ -\ 13\,270 \\ \hline \end{array}$$

17) Subtract.

$$\begin{array}{r} 1\,821\,264 \\ -\ 296\,568 \\ \hline \end{array}$$

18) Multiply.

22 x 33 =

19) Find the product.

45 x 1000 =

20) Divide.

40 ÷ 8 =

21) Divide. Show your remainder.

$5\overline{)729}$

22) Divide.

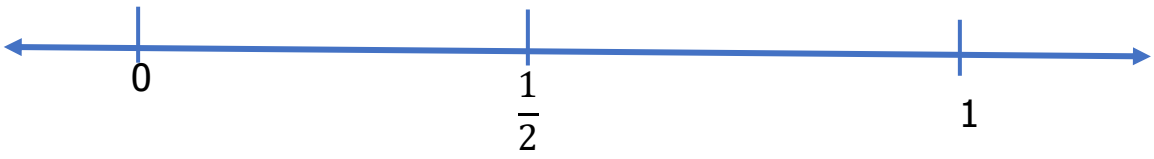
245 ÷ 5 =

23) What is the greatest common factor of 48, 16 and 40?

24) **Estimate** the product: **18 × 72**	25) **Estimate** the quotient: **198 ÷ 4**
26) What is the least common multiple of 3,4, and 6?	27) Circle all the prime numbers. 10 15 17 5 21 29 11
28) Use any method you like to write all the prime factors of 36.	29) Calculate. $10 \div 2 + 3 \times (9 - 2) =$

30) Place these three fractions approximately where they belong on the number line.

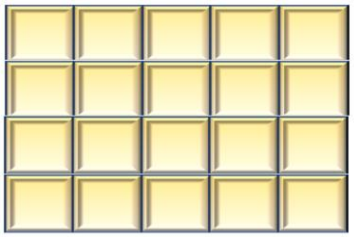
$\frac{1}{3}$ $\frac{3}{4}$ $\frac{1}{10}$



31) Place these three fractions approximately where they belong on the number line .

$\frac{7}{20}$ $1\frac{1}{4}$ $\frac{15}{10}$

32) Split this chocolate bar into **fourths**.



33) Insert either **<** , **>**, or **=** between these two fractions.

$$\frac{2}{5} \quad \square \quad \frac{5}{9}$$

34) Change to a mixed number.

$$\frac{8}{3}$$

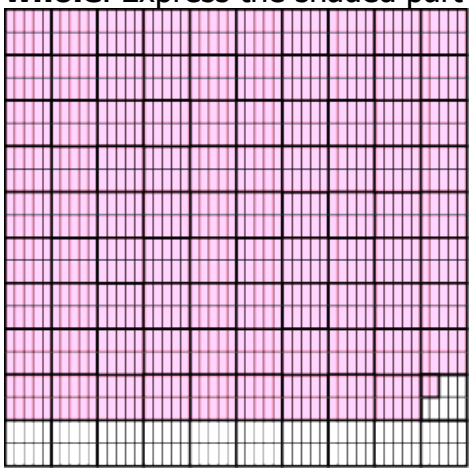
35) Write as an improper fraction (common fraction).

$$3\frac{2}{5}$$

36) Write in lowest terms (reduce/simplify).

$$\frac{12}{18}$$

37) This *thousandths grid* represents **one whole**. Express the shaded part as a decimal.



38) Add.

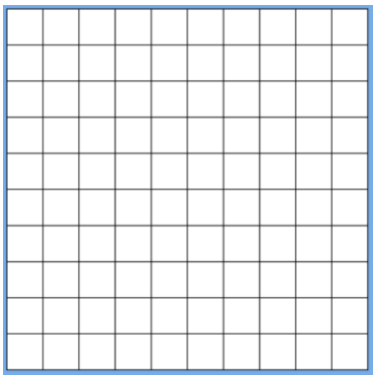
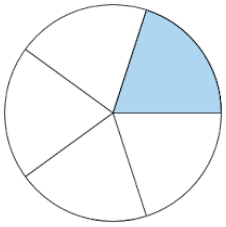
$$\mathbf{366.298 + 53.74 =}$$

39) Place the decimal where it belongs in this product.

$$16.324 \times 3.15 = 514206$$

40) Place the decimal where it belongs in this quotient.

$$42.539 \div 5.15 = 826$$

41)Find the product. $\begin{array}{r} 0.89 \\ \times\ 6 \\ \hline \end{array}$	42)Divide (do not leave a remainder). $24.025 \div 5 =$	43) Shade 18% of this hundred grid. 
44) What **percent** of this shape is shaded? 	45) Express 35% as a fraction.	46) Insert either **<** , **>**, or **=** between these two integers. **-6** ☐ **-10**

47) Place these integers on the number line.

+5 -5 +2 0 -4 +4

48) What is the ratio of cars to trucks? 	49) Write an equation with a variable for: **5 groups of a number is 30.**
50) Write an equation for **15 is 4 less than a number**.	
51) Four friends each bought a package of game cards. All together they have 64 cards. **Write an equation using the variable x to represent how many cards are in each package.**	52) Write an equation with a variable for **7 more than a number is 18.**
53) Solve for n $\boldsymbol{n + 6 = 14}$	54) Solve for x $\boldsymbol{4x = 24}$

55) Write the rule with words or an equation.

x	y
1	3
2	7
3	11
4	15
5	19

56) Create a table of values for this increasing pattern.

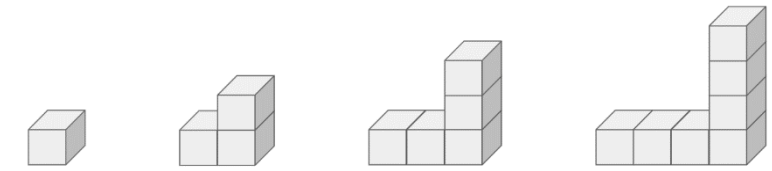
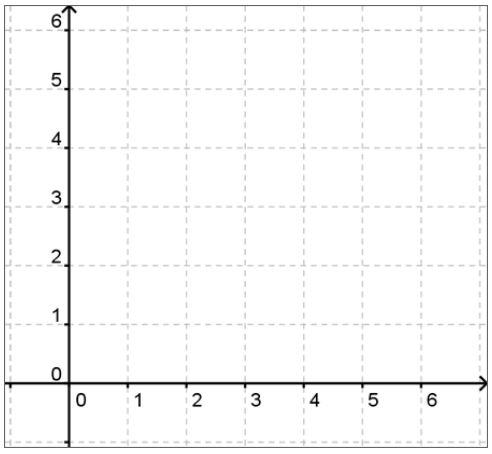


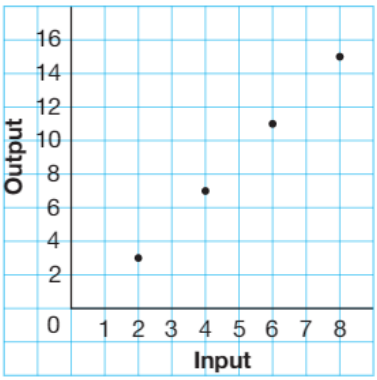
Fig. 1 Fig. 2 Fig. 3 Fig. 4

Figure number	Number of Blocks

57) Plot the point (4,2)



58) Create an input/output table from this graph.

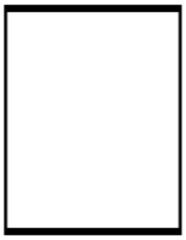


Input	Output

59) Write an equation to represent the rule for this table. Use **C** for cost and **n** for number of guests.

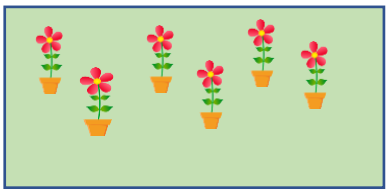
Number of Guests	**Cost**
1	20
2	40
3	60
5	100
n	

60) The area of this rectangle is $24m^2$, what could the length and width be?



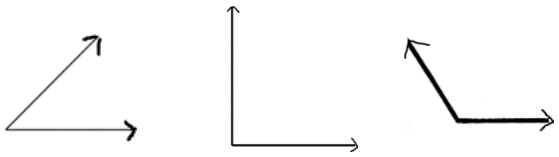
61) Find the **perimeter** of the garden:

12m

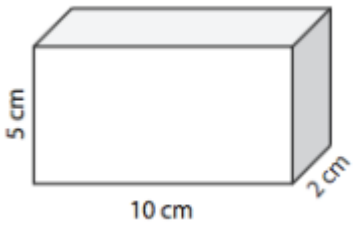


8m

62) Circle the angle that is about 45°.

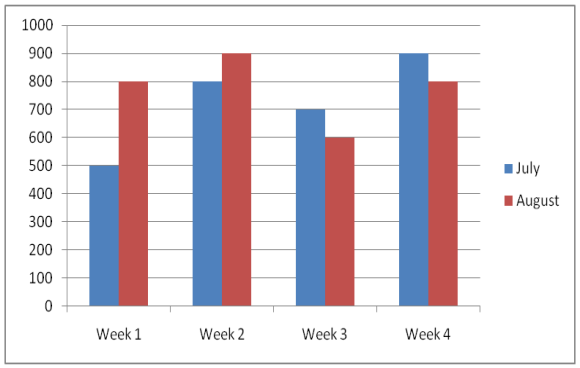


63) Find the volume.



64) How many people bought ice cream during the second week of August?

Ice cream sold in July and August



65) How deep was the snow on Dec 1?

Depth of Snow