

Term 3 week 10 Practice and mastery

Monday- SA

3A MIGHTY MATHS NUMERACY PROJECT

Fill in the missing sums.

+	7	9	3	12	4	8	5	14	6	10
4										
12										
2										
8										
6										
15										
5										
11										
13										
3										



Keep doubling each number in the column.

Calculate the totals of each column.

2	5
4	10
8	20
16
.....
.....
.....
.....
.....
.....
.....
.....

What must be added to:

- 2 × 3 to make 10?
- 4 × 3 to make 20?
- 12 × 2 to make 30?
- 3 × 12 to make 40?
- 8 × 6 to make 50?
- 7 × 8 to make 60?
- 9 × 7 to make 70?
- 6 × 12 to make 80?
- 10 × 8 to make 90?
- 9 × 9 to make 100?
- 12 × 9 to make 120?

What is the remainder when:

- 29 is divided by 2?
- 35 is divided by 3?
- 30 is divided by 4?
- 49 is divided by 5?
- 28 is divided by 6?
- 50 is divided by 7?
- 45 is divided by 8?
- 80 is divided by 9?
- 75 is divided by 10?
- 52 is divided by 11?
- 100 is divided by 12?

Fill in the spaces.

- + 11 = 50
- - 12 = 30
- × 9 = 99
- 18 ÷ = 6
- 20 + = 40
- × 3 = 60
- 6 × 0 =
- 99 + 7 =
- 12 × = 144
- - 6 = 15
- ÷ 7 = 8

School camp

Jesse's class is going on a school camp for three days in November. The camp includes many exciting activities like canoeing, sailing, volleyball and tennis.



The total cost of the camp is **\$292** and it is made up of 4 parts:

- bus
- accommodation
- food
- activities

Complete the table to show some possibilities of how the cost of the camp might have been calculated.

Bus	Accommodation	Food	Activities	Total
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292
				\$292

Total:

3. Where was the Treaty of Waitangi signed?

Find an equivalent decimal or percentage for the fractions given in the table below and enter its letter in the box to crack the code and answer the question.

40% = A = 0.4

0.25 = O = 25%

20% = E = 0.2

60% = M = 0.6

80% = B = 0.8

75% = T = 0.75

0.5 = H = 50%

	2/5	3/4		6/8	1/2	2/10		4/5	2/8	75/100	15/20	1/4	3/5
Equivalent decimal or percentage													
Letter													

4. Crossword Puzzle

1			2	3		4	
		5					6
	7						
					8	9	
10			11	12			
							13
		14				15	
16			17				

Across clues

1.) 37% = ?/100

2.) 18% = 0.?

4.) 60% = 0.?

7.) 0.95 = 95/?

8.) $89\% = ?/100$

10.) $7/10 = ?\%$

11.) $?\% = 75/100$

14.) $0.09 = ?\%$

15.) 20% of $9/10 = ?/100$

16.) $\frac{1}{4} = ?\%$

17.) 25% of $1000 = ?$

Down clues

1.) 25% of $128 = ?$

3.) $42/50 = ?\%$

5.) $2/5 = ?\%$

6.) 20% of $\$90 = \$?$

9.) $24/25 = ?\%$

10.) $\frac{3}{4} = ?\%$

12.) 10% of $550 = ?$

13.) $29/50 = ?\%$

Wednesday – GRI

order of operations

NAME: _____

Orange
 $\frac{18}{20}$
 4

Green
 $\frac{19}{23}$
 105
 21
 17

Purple
 $\frac{2}{6}$
 44

Yellow
 $\frac{72}{5}$
 15

Brown
 $\frac{3}{7}$
 58
 66

Blue
 $\frac{16}{61}$
 12

Red
 $\frac{14}{60}$
 48

Math problems in segments (clockwise from top-left):
 $81 \div 27 \times 6 - 2$
 $4 \cdot (72 - 63) \div 3 + 2$
 $1 + (4) + 1$
 $(22 + 3) \div (9 - 4) + 3$
 $18 + 6 - 8 \div 2 + 3$
 $8 \div 32 \div 8$
 $65 - 32 \div 8$
 $7 \times 9 + 3$
 $3 + 6 \times 6$
 $5 \times (41 - 36) - (8 + 14) + 1$
 $33 \div 3 + 6$
 $8(2 + 4)$
 $(72 + 12) \div (35 + 7)$
 $45 - 2 \times (15 - 3)$
 $8 + 3(16 - 12)$
 $(5 \cdot 5 + 5) \div (5 \cdot 5 - 15)$
 $20 \div 4 - 5 + 12$
 $(80 - 11) \div (11 + 4)$
 $8 + 7 + 12 \div 3$
 $(19 - 8) \cdot 4$
 $30 \cdot (6 - 4)$
 $(7 - 6) - 4$
 $(25 \cdot 3) + (10 \cdot 3)$
 $7 \cdot 4 + 6 \cdot 5$
 $75 - 5(2 \cdot 6)$
 $(12 + 84) \div (11 + 3)$
 $36 \div 6 + 7 - 6$
 $(10 \cdot 2) - (6 \cdot 11)$

Thursday – RM

A Logic Based Mystery. The Mystery Math Ball

Jennifer received an invitation in the mail. She really wanted to go to the ball however the date, place and who was hosting it had to be figured out.

Can you help her to figure out this information so that she can go to the Mystery Math Ball?

DATE; Use the clues and the calendar to help Jennifer figure out the date of the "Mystery Math Ball"

	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Clues 1. The date is not a prime number.

2. The date is not a multiple of 4 or 5

3. The date is a multiple of 2

4. The date is divisible by 6.

5. If you have eliminated dates correctly, you should have two possible dates left.

The date of the Mystery Math Ball is the greater number of these two dates.

WHEN IS THE BALL? -----

MYSTERY PLACE

Next Jennifer must figure out where the Mystery Math Ball will be held.

Can you help her? Use the clues provided to figure out the 5-digit house number.

Clues, 1. The house number is an even number.

2. The product of the digits in the one's place and the hundred's place is 6. The sum of these two digits is 5.

3. The digit in the ten thousand's place is the difference between the hundred's digit and the one's digit.

4. The ten's digit is the greatest even digit.

5. The sum of the digits in the ten thousand's place and the thousand's place is equal to the digit in the ten's place.

WHERE IS THE MYSTERY MATH BALL? _____

MYSTERY HOST

Jennifer's last task is to figure out who is hosting the "Mystery Math Ball" so that she can contact the host for final details about the party. She knows the host is 16 years old and is one of the following people- John, Joe, Jill, Janet, or Jim.

She knows that these five people's ages range from 14- 18 years old. Use the deductive reasoning chart and the clues provided to help Jennifer figure out who is hosting the " Mystery Math Ball"

	18	17	16	15	14
John					
Joe					
Jill					
Janet					
Jim					

Clues:

1. Jim is 3 years younger than John.
 2. Jim is younger than Joe.
 3. Janet is older than Jill.
 4. Jill is not 15 years old.
 5. Jim is not the youngest person.
 6. John is the second- oldest person.
 7. Joe is 2 years younger than Janet.
- WHO IS THE HOST? _____

















Friday – AZI

We are learning to use appropriate strategies to solve the problems below

Activity 1:

Each salamander is worth a different value between 1 and 10.

The total of each vertical line of salamanders is worked out for you.





			
			
			
			

= 24

= 26

= 30

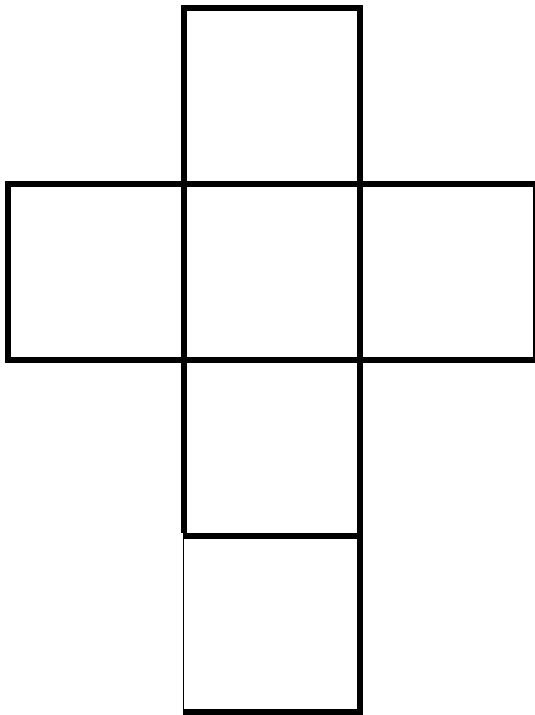
= 24

How much is each salamander worth?			
Salamander	Worth	Salamander	Worth
			
			

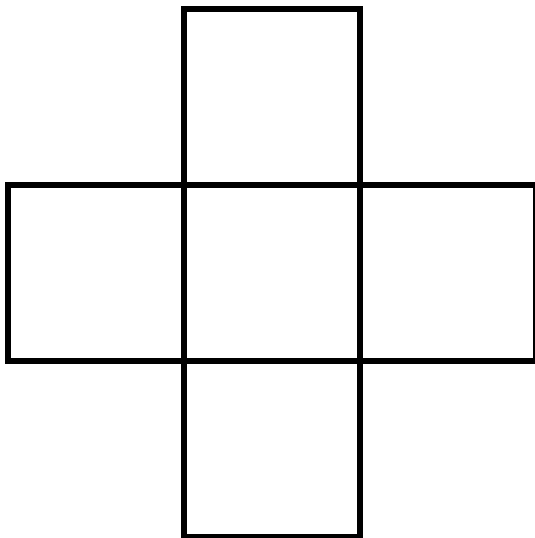
Activity 2:

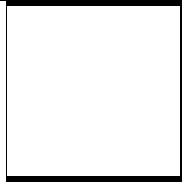
NEWTON'S CROSSES PUZZLE

1. Write the numbers 10, 20, 30, 40, 50 and 60 in the correct place so that each line of the cross adds up to 130.



2. Write the numbers 5, 10, 15, 20, 25 and 30 in the squares so that each line of the cross adds up to 60.

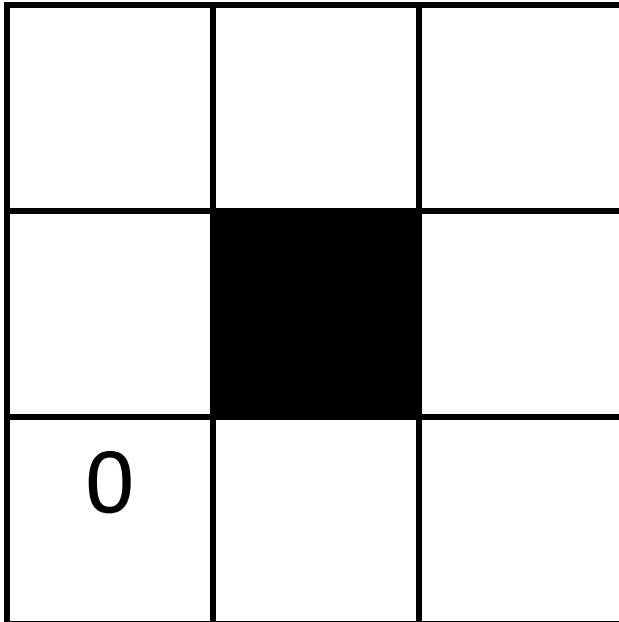




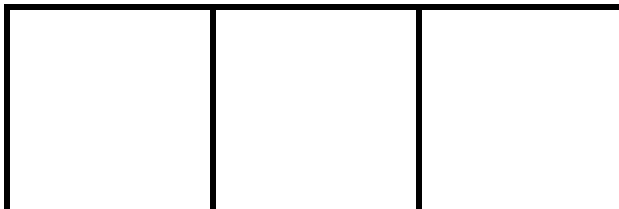
Activity 3:

QUADRA'S SQUARE PUZZLE

1) Write the numbers 0.1, 0.2, 0.3, 0.4, 0.5, 0.6 and 0.7 in the correct place so that each side of the square adds up to 0.9.



2) Write the numbers 0.1, 0.2, 0.3, 0.4, 0.5, 0.6 and 0.7 in the correct place so that each side of the square adds up to 1.2.



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