



S. THOMAS COLLEGE
GURUTHALAWA



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Grade 7

Mathematics

Teacher in Charge :M.R.F Rinosha

Special Note for parents:

As your child have had an unexpected holiday his academic works, studies are get stuck.so we introduce a study pack which your child can study from home. As we hadn't enough time for the preparation please make sure to guide your child with this small and effective revision work.

Note for my students:

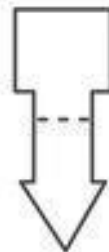
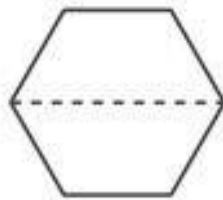
Dear Students! What a wonderful holiday that you got unexpectedly without term tests and studies. You can't escape from the school works while you play at home. While you couldn't go for outing, I have prepared some revision questions from the lessons that we've done. Please do them and bring back to school on the reopen day. If you have any doubt Please contact me on my number.

Stay safe!

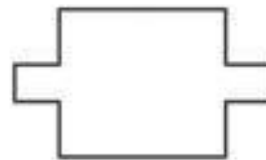
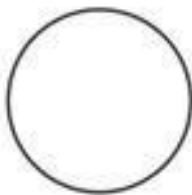
Symmetry

Age Group: 8-9

Tell whether the dotted lines on each shape represent line of symmetry or not. Write 'YES' or 'NO'.



Draw a line of symmetry on each shape.



Draw the other half of each symmetric shape.



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Order of Operations

1) $(13 - 5) \times (14 + 6) - 4$

6) $(8 + 21 - 5) \div 6 - 6$

2) $6 \times (6 \times 4 - 8) + 5$

7) $(16 - 8) \times (14 - 4) + 8$

3) $(15 - 3) + (16 - 10 \div 2)$

8) $(15 + 38 - 5) \div (2 + 6)$

4) $(11 + 25 - 6) \div (1 + 2)$

9) $(15 - 3) + (11 - 12 \div 4)$

5) $(11 + 31 - 6) \div 6 + 2$

10) $6 \times (11 \times 3 - 5) + 3$

B

ackets

Do whatever is in the brackets first

O

rders

Then do powers, square roots etc.

Also known as BIDMAS where I is for indices

D

ivision

Next do the division

M

ultiplication

Next do the multiplication

A

ddition

Next do the addition

S

ubtraction

Next do the subtraction

BODMAS 1

Calculation	Do first	Do second	Answer	
$7 + 3 \times 5$	$3 \times 5 = 15$	$7 + 15$	22	
$9 + 4 \times 6$				
$6 - 10 \div 5$				
$4 \times 21 \div 3$				
Calculation	Do first	Do second	Do third	Answer
$5 \times 4 + 2 \times 3$				
$30 \div 6 - 15 \div 5$				
$2 \times 8 - 18 \div 3$				
$13 + 11 - 4 \times 2$				

Section B

Choose the correct answer for the following calculations.

$12 - 2 \times 4 =$	40	4	24
$16 + 32 \div 8 =$	34	4	20
$5 \times 9 - 11 \times 2 =$	58	68	23
$4 + 3 \times 10 \div 5 =$	10	14	7
$72 + 30 - 25 \times 4 =$	308	2	172

Section C

Without using a calculator, calculate the following.

- | | | |
|-----------------------|----------------------------|---------------------------------|
| 1) $8 - 3 \times 2 =$ | 6) $7 - 1 \times 6 =$ | 11) $5 \times 5 + 20 \div 10 =$ |
| 2) $4 + 6 \div 2 =$ | 7) $31 - 3 \times 8 =$ | 12) $49 \div 7 + 18 \div 3 =$ |
| 3) $5 + 4 \times 4 =$ | 8) $6 - 10 \div 5 =$ | 13) $8 \times 6 + 77 \div 7 =$ |
| 4) $5 - 12 \div 3 =$ | 9) $8 \div 4 + 14 =$ | 14) $10 + 7 - 2 \times 6 =$ |
| 5) $2 + 7 \times 3 =$ | 10) $8 + 7 + 2 \times 6 =$ | 15) $18 - 6 \times 15 \div 5 =$ |

Questions On Bodmas / Bidmas 1

1. $5 + 3 \times 8 =$

2. $7 \times 4 + 11 =$

3. $12 + 2 \times 4 =$

4. $9 \times 2 + 1 =$

5. $15 \div 3 + 8 =$

6. $7 + 16 \div 8 =$

7. $12 - 3 \times 7 =$

8. $10 + 24 \div 6 =$

9. $30 - 80 \div 8 =$

www.9-1GCSEMathsworksheets.com

Prime Factorization



$$\begin{aligned}
 16 &= 2 \times 8 \\
 &= 2 \times 2 \times 4 \\
 &= 2 \times 2 \times 2 \times 2
 \end{aligned}$$

$$\begin{aligned}
 36 &= \boxed{4} \times \boxed{9} \\
 &= \boxed{} \times \boxed{} \times \boxed{} \times \boxed{}
 \end{aligned}$$

$$\begin{aligned}
 48 &= \boxed{4} \times \boxed{12} \\
 &= \boxed{} \times \boxed{} \times \boxed{} \times \boxed{} \\
 &= \boxed{} \times \boxed{} \times \boxed{} \times \boxed{} \times \boxed{}
 \end{aligned}$$

$$\begin{aligned}
 56 &= \boxed{7} \times \boxed{} \\
 &= \boxed{} \times \boxed{} \times \boxed{} \\
 &= \boxed{} \times \boxed{} \times \boxed{} \times \boxed{}
 \end{aligned}$$

Prime Numbers

Is the number 7 a prime number? Why or why not?

Is the number 8 a prime number? Why or why not?

Is the number 9 a prime number? Why or why not?

Is the number 5 a prime number? Why or why not?

Circle the prime numbers.

3 6 10 2 14 11

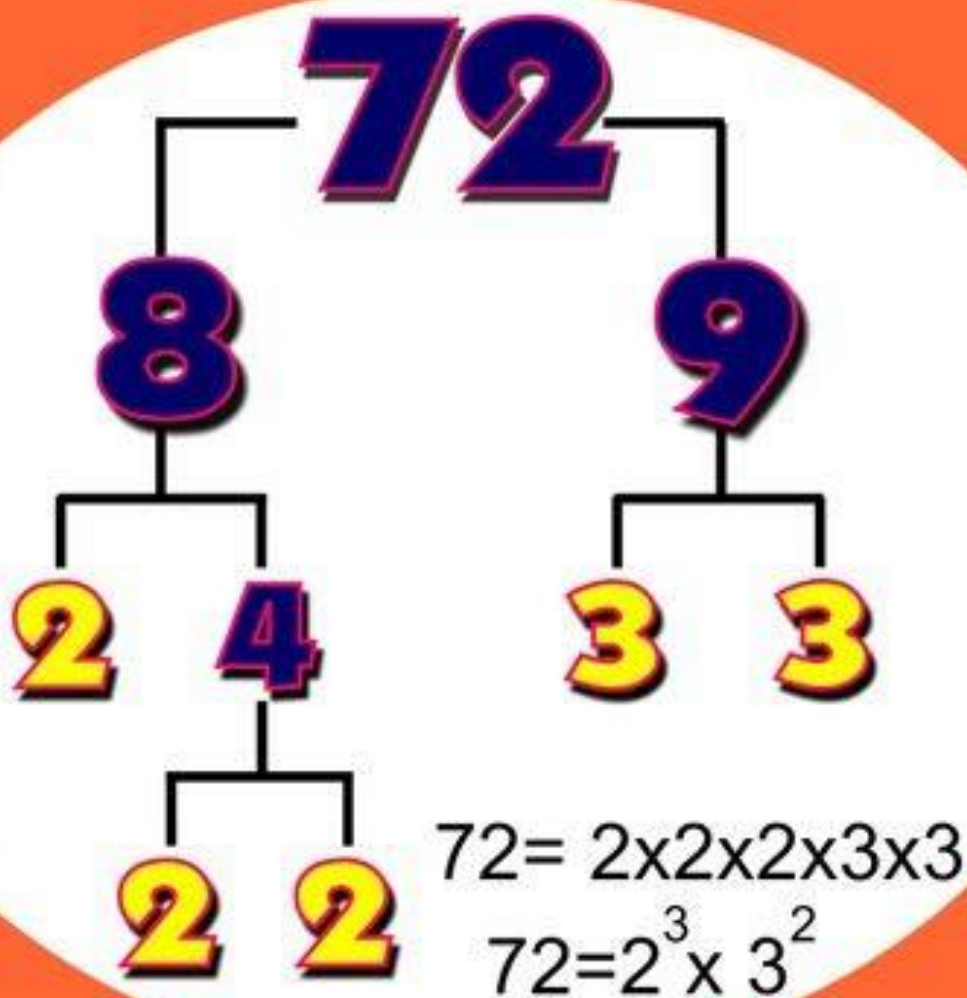
21 5 22 23 30

42 29 41 50 28 46

52 47 53 54 60

Prime Factorization

Breaking down a composite number
until all of it's factors are PRIME



1.

432

is this number divisible by...

2 3 4 5 6 7 8 9 10

2.

357

is this number divisible by...

2 3 4 5 6 7 8 9 10

3.

2,360

is this number divisible by...

2 3 4 5 6 7 8 9 10

4.

5,671

is this number divisible by...

2 3 4 5 6 7 8 9 10

5.

16,303

is this number divisible by...

2 3 4 5 6 7 8 9 10

6.

38,475

is this number divisible by...

2 3 4 5 6 7 8 9 10

7.

400,005

is this number divisible by...

2 3 4 5 6 7 8 9 10

8.

782,340

is this number divisible by...

2 3 4 5 6 7 8 9 10

9.

7,321,694

is this number divisible by...

2 3 4 5 6 7 8 9 10

10.

6,862,356

is this number divisible by...

2 3 4 5 6 7 8 9 10

"The greatest gift you can give someone is your time because when you give your time, you are giving a portion of your life that you will never get back."



Time Time Time Time Time Time



1. Write your associations with the word 'Time':



2. Explain the following proverbs:

Time cures all things

Time flies

Time is money

All in good time

3. Match the words to the definitions:

1. minute
2. quarter of an hour
3. half an hour
4. hour
5. day
6. week
7. fortnight
8. month
9. year
10. leap year
11. decade
12. century
13. millennium

- a) a period of two weeks.
- b) a period of one hundred years.
- c) one of the 12 periods that a year is divided into; a period is about 4 weeks.
- d) a period of ten years.
- e) a period of time that consists of 60 minutes.
- f) a period of 365 days divided into 12 months.
- g) a period of time that consists of 15 minutes.
- h) a period of a thousand years.
- i) a period of 60 seconds.
- j) one of the periods of time that a week is divided into, equal to 24 hours.
- k) a period of 366 days.
- l) a period of seven days, usually counted from a Sunday.
- m) a period of time that consists of 30 minutes

4. Complete the sentences with words from the box, explain your answers and statements:

millisecond minute year week second hour month

1. To realize the value of one _____, ask a student who failed a grade.
2. To realize the value of one _____, ask a mother who has given birth to a premature baby.
3. To realize the value of one _____, ask the editor of a weekly newspaper.
4. To realize the value of one _____, ask the lovers who are waiting to meet.
5. To realize the value of one _____, ask a person who just missed a train.
6. To realize the value of one _____, ask someone who just avoided an accident.
7. To realize the value of one _____, ask the person who won a silver medal at the Olympics.

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Calendar Math - Converting Time

Directions: Fill in the correct units of time.

1 minute = _____ seconds

1 hour = _____ minutes

1 day = _____ hours

1 week = _____ days

1 month = _____ weeks

1 year = _____ weeks

1 year = _____ months

1 year = _____ days

1 decade = _____ years

1 century = _____ years

1 millennium = _____ years

Adding Integers (A)

Use an integer strategy to find each answer.

$$(-11) + (-5) =$$

$$12 + 2 =$$

$$10 + (-13) =$$

$$(-8) + (-5) =$$

$$13 + 14 =$$

$$(-7) + 15 =$$

$$11 + 15 =$$

$$(-3) + (-1) =$$

$$(-12) + (-1) =$$

$$(-2) + (-15) =$$

$$10 + (-12) =$$

$$(-5) + 7 =$$

$$13 + (-4) =$$

$$12 + 2 =$$

$$12 + (-13) =$$

$$(-9) + (-1) =$$

$$9 + (-6) =$$

$$3 + (-3) =$$

$$2 + (-13) =$$

$$14 + (-9) =$$

$$(-9) + 2 =$$

$$(-3) + 2 =$$

$$(-14) + (-5) =$$

$$(-1) + 7 =$$

$$(-3) + (-3) =$$

$$3 + 1 =$$

$$(-8) + 13 =$$

$$10 + (-1) =$$

$$(-13) + (-7) =$$

$$(-15) + 12 =$$

Exponents Worksheet

Solve.

1 a. 2^1

1 b. 5^2

2 a. 3^3

2 b. 8^2

3 a. 0^{82}

3 b. 100^1

4 a. 10^7

4 b. 0^{20}

5 a. 8^1

5 b. 5^1

6 a. 10^4

6 b. 6^2

7 a. 4^2

7 b. 7^2

8 a. 100^6

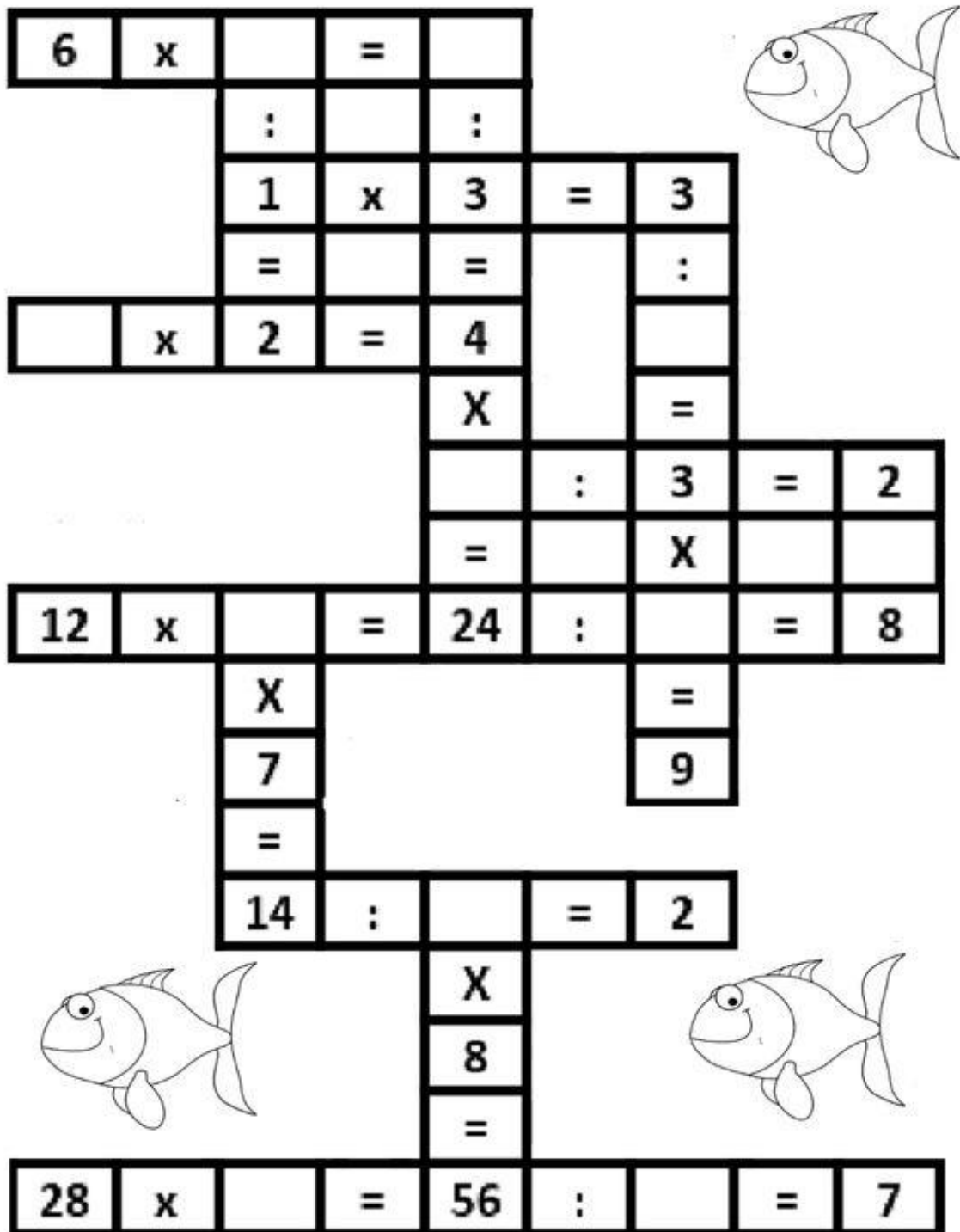
8 b. 1^9

9 a. 9^2

9 b. 1^{99}

10 a. 100^2

10 b. 2^3

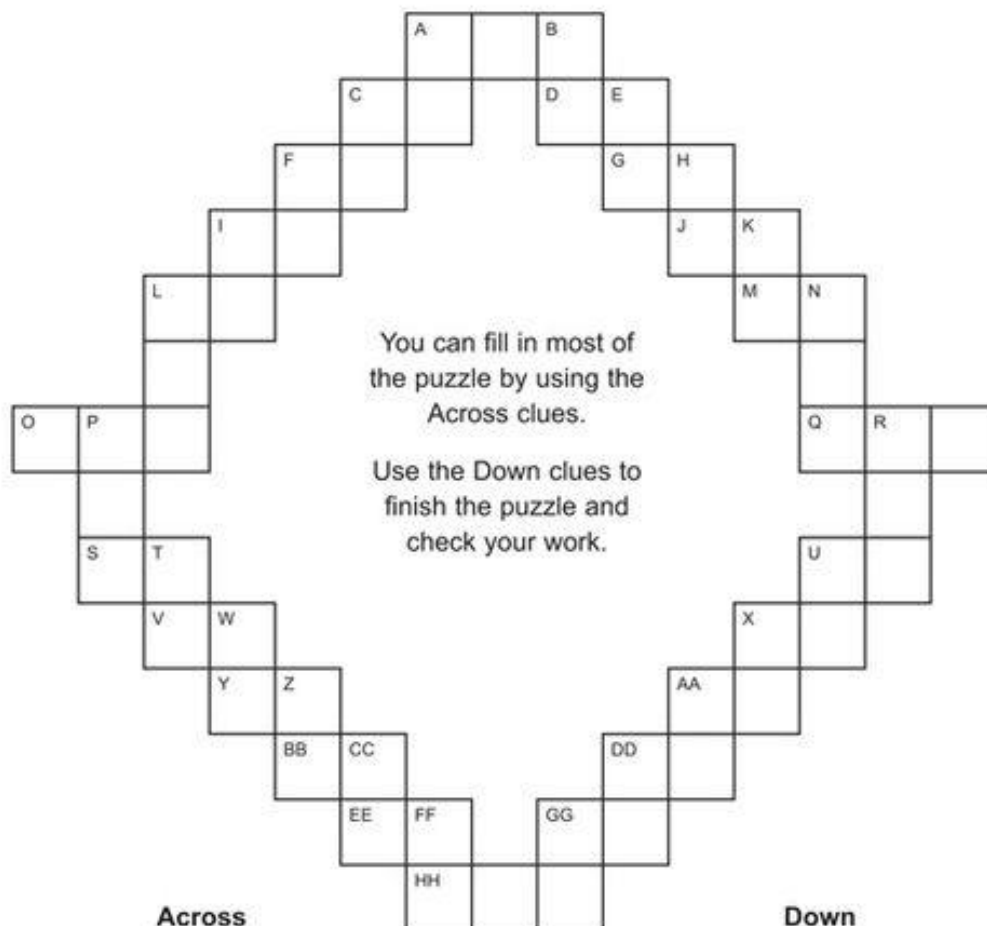


Solve the Sudoku Puzzle!

4	1			8	2	6		3							
		7	5		9		1	8							
8		2	3		6	7		4							
	2		8		7	4	3	1							
		1			3		8								
3		4	9		1	5		2							
	5	3	1		4			7	1	2					9
1	4	8	6		5		2	9		7		1	8		
7	6				8	1	4		8		3	7			2
						7		2	6	5					1
							5	1	2	3		8	7	6	
								8		1			2	3	
1	7		3		4	9		6	7	4	1		3		
3	6	9		5	7	2	1	4	3	8	5	6			7
8	4		6	1	9	5		3	9		2	4	1		
		4		7		3	6								
2	3		5	9	8	7	4	1							
9		7		6	3	8	5								
	5	8		3	6		2	7							
7	9				5	6	3	8							
6		3		8		4	9								

Cross-Number Puzzle

Worksheet



Across

- | | |
|------------|-------------|
| A. 11 x 12 | S. 8 x 11 |
| C. 1 x 11 | U. 10 x 9 |
| D. 12 x 7 | V. 2 x 7 |
| F. 5 x 11 | X. 7 x 7 |
| G. 9 x 6 | Y. 6 x 8 |
| I. 4 x 5 | AA. 9 x 2 |
| J. 3 x 9 | BB. 3 x 4 |
| L. 8 x 8 | DD. 4 x 8 |
| M. 3 x 7 | EE. 8 x 7 |
| O. 7 x 30 | GG. 7 x 9 |
| Q. 60 x 8 | HH. 10 x 60 |

Down

- | | |
|------------|------------|
| A. 11 x 1 | R. 80 x 11 |
| B. 7 x 4 | T. 9 x 9 |
| C. 5 x 3 | U. 9 x 11 |
| E. 9 x 5 | W. 11 x 4 |
| F. 5 x 10 | X. 6 x 8 |
| H. 7 x 6 | Z. 1 x 81 |
| I. 4 x 6 | AA. 2 x 6 |
| K. 9 x 8 | CC. 5 x 5 |
| L. 8 x 80 | DD. 3 x 11 |
| N. 12 x 12 | FF. 11 x 6 |
| P. 9 x 12 | GG. 6 x 10 |