

MATH'S MATE



Term 4 - Sheet 6

Name:

Due Date: / /

Parent's Signature:

QUOTE OF THE WEEK -

Fashion - That which is unwearable until everyone else is wearing it, by which time it is unfashionable.
Rossiter

1. [+ Whole Numbers to 10]

	6	-18	2	10	5	-7	-4	9	-3	1
+9										

2. [- Whole Numbers to 10]

	14	-7	13	8	4	6	-3	15	1	12
-5										

3. [x Whole Numbers to 12]

	3	-8	9	11	-2	7	12	-5	4	-6
x 11										

4. [+ Whole Numbers to 12]

	70	-63	-35	28	42	-56	49	-21	77	84
÷ 7										

5. [Large Number +, -] *

$64 + 1053 - 888 =$

6. [Large Number x, ÷] *

$9420 \div 60 =$

7. [Powers of 10 x, ÷]

$3.7 \div 100 =$

8. [Decimal +, -] *

$0.016 + 0.16 + 0.106 =$

9. [Decimal x, ÷]

$0.15 \times 0.4 =$

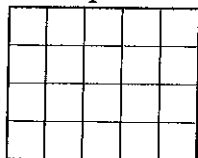
10. [Fraction +, -] *

$\frac{2}{3} + \frac{1}{12} =$

11. [Fractions] *

Shade $\frac{1}{5} + \frac{1}{4}$ of all the squares shown.

What fraction of the rectangle have you shaded?



12. [Percents] *

Find the sale price of a \$1800 computer that has been marked down by 10%.

 \$

13. [Rates / Ratios] *

The average weight of rubbish a person discards daily is 4.4 lb. How many tons (T) of rubbish does a town of 1000 people discard in a week? [Hint: 2000 lb = 1 ton]

 T

14. [Exponents / Square Roots]

$6^3 =$

15. [Order of Operations] *

$(-3)^3 + 27 - \sqrt{4} =$

16. [Factors / Multiples / Primes] *

Express 144 as the product of its prime factors using exponential notation.

17. [Number Patterns] *

Find the 10th term in the sequence 2, 4, 8, 16, ...

18. [Number / Place Value] *

Place in order from largest to smallest:

$\frac{1}{2}, 0.55, 56\%$

19. [Integers]

$(+3) + (+6) =$

20. [Word Numbers]

Write the number 601,000 in words:

21. [Algebra - Like Terms]

Simplify
 $4x - 2 + 2x + 5$

22. [Algebra - Substitution] *

If $g = 5$, find the value of: $2g^2$

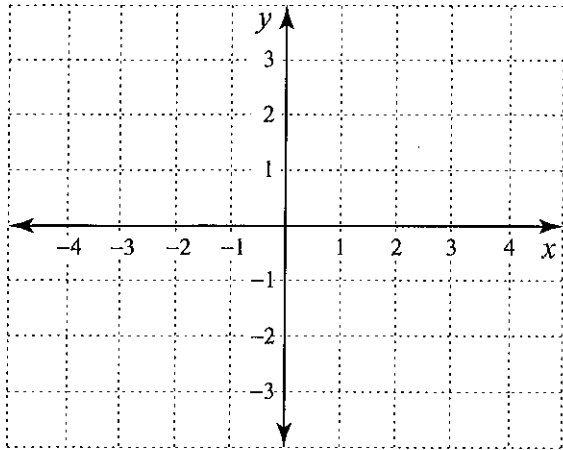
23. [Algebra - Equations] *

If $3n + 4 = -8$, find n

 $n =$

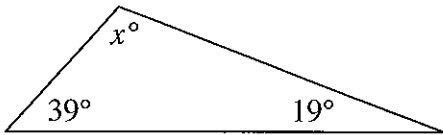
24. [Coordinate Planes]

Draw the line where $y = 1$.



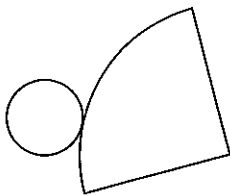
25. [Angles] *

Find the value of x° .
[Diagram not drawn to scale.]



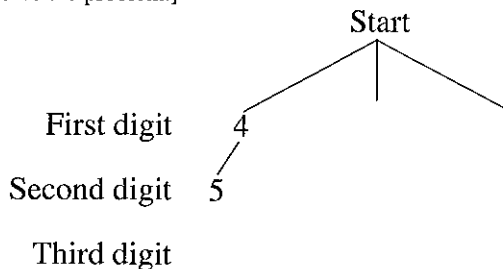
26. [Geometry]

Name the 3-dimensional figure that could be formed from this net.



27. [Data / Probability]

How many different three digit numbers can be made using the digits 4, 5 and 6 once each? [Complete the tree diagram below to help solve the problem.]



28. [Units of Measurement]

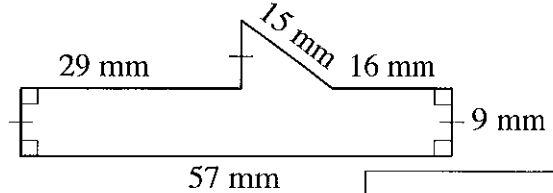
It took Leo Tolstoy six years to write *War and Peace*.

How many months was this?

[Leo Tolstoy - Russian author, 1828-1910]

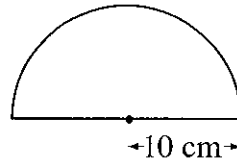
29. [Perimeter] *

Find the perimeter of this shape.


 mm

30. [Area] *

Using $A = \frac{1}{2} \pi r^2$ and $\pi \approx 3.14$, find the area of this semi-circle.

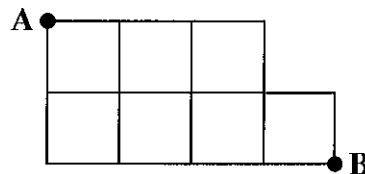

 cm²

31. [Problem Solving 1] *

Suppose express trains leave Atlantic City for Cherry Hill every 100 minutes. If the first train leaves at 12:45 A.M., what departure time will be closest to 9:00 A.M.?

32. [Problem Solving 2] *

You are to go from A to B, always moving right or down along the lines. How many different ways can you go?



33. [Problem Solving 3] *

An eye blink takes an average of one twentieth of a second and you blink 10 times per minute. If you travel at an average speed of 60 mph for 4 hours, how many miles will you travel with your eyes closed?

 miles