

MATH'S MATE



Test 8 - Term 4

Covering worksheets
4.5 - 4.8

Name:

1. [+ Whole Numbers to 10]

	8	-2	7	10	-11	4	-3	5	-6	9
+ 4										

2. [- Whole Numbers to 10]

	5	19	11	16	2	12	-4	8	13	4
- 5										

3. [x Whole Numbers to 12]

	-2	10	4	11	6	9	-3	8	12	-7
x 11										

4. [+ Whole Numbers to 12]

	-54	9	-18	36	45	108	-27	72	63	81
÷ 9										

5. [Large Number +, -] *

$$88 + 3066 - 777 =$$

6. [Large Number x, ÷] *

$$8610 \div 70 =$$

7. [Powers of 10 x, ÷]

$$4.8 \div 100 =$$

8. [Decimal +, -] *

$$6 + 8.05 + 1.48 =$$

9. [Decimal x, ÷]

$$0.15 \times 0.9 =$$

10. [Fraction +, -] *

$$\frac{5}{6} - \frac{1}{3} =$$

11. [Fractions] *

Shade $\frac{1}{2} + \frac{2}{9}$ of all the squares shown. What fraction of the rectangle have you shaded?



12. [Percents] *

A retailer buys cards for \$2.00 and marks them up by 80%. Find their selling price.

 \$

13. [Rates / Ratios] *

Pennsylvania has about 12,000,000 people living in an area of about 120,000 km². What is the population density?

 people per km²

14. [Exponents / Square Roots]

$$10^6 =$$

15. [Order of Operations] *

$$(-4)^2 - 16 - \sqrt{4} =$$

16. [Factors / Multiples / Primes] *

Express 90 as the product of its prime factors using exponential notation.

17. [Number Patterns] *

Find the 10th term in the sequence 1, 8, 27, 64, 125,

18. [Number / Place Value] *

Place in order from smallest to largest: $\frac{1}{4}$, 0.28, 23%

19. [Integers]

$$(-36) + (-6) =$$

20. [Word Numbers]

Write the number 13,000,012 in words:

21. [Algebra - Like Terms]

Simplify $4m + 2m + 5n - 3n$

22. [Algebra - Substitution] *

If $b = 3$, find the value of: $2b^2$

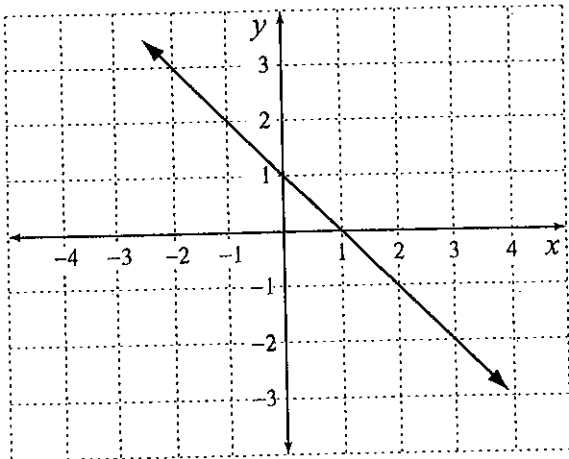
23. [Algebra - Equations] *

If $2m + 5 = -15$, find m

 $m =$

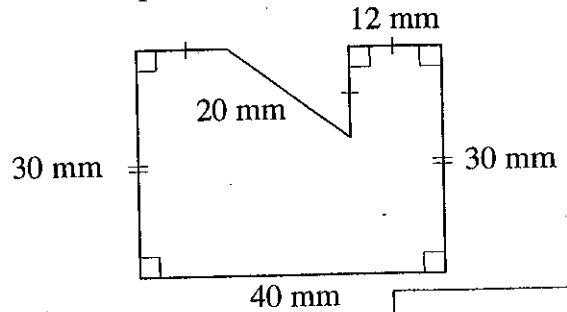
24. [Coordinate Planes]
The line below is best described as:

- A) All points where $x = 1$
- B) All points where $y = 1$
- C) All points where $x + y = 1$

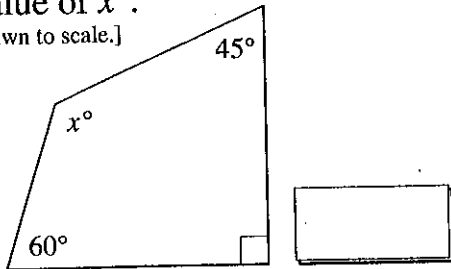


28. [Units of Measurement]
Some snails can sleep for three years.
Express this time in months.

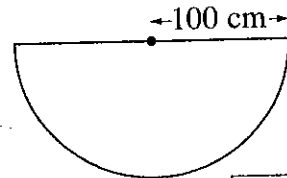
29. [Perimeter] *
Find the perimeter of this shape.



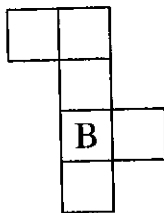
25. [Angles] *
Find the value of x° .
[Diagram not drawn to scale.]



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

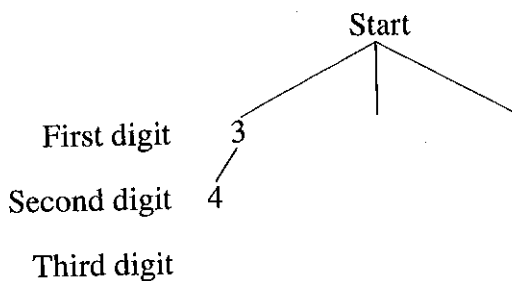


26. [Geometry]
On this net of a cube the base B is marked. Label the top face with a T.



27. [Data / Probability]
How many different 3-digit numbers can be made using the digits 3, 4 and 5 if the digits can not be repeated in the numbers?

[Complete the tree diagram below to help solve the problem.]



31. [Problem Solving 1] *
Two integers have a sum of -8 and a difference of 12 . What are the integers?

32. [Problem Solving 2] *
The pages in a book are numbered from 1 to 140. How many of these pages contain the digit 2 at least once?

33. [Problem Solving 3] *
Pierre de Fermat, a 17th century French lawyer, stated that any whole number can be written as the sum of, at most, four square numbers.
For example: $15 = 3^2 + 2^2 + 1^2 + 1^2$
Express 56 as such a sum.