

MATH'S MATE



Term 4 - Sheet 4

Name:

Due Date: / /

Parent's Signature:

QUOTE OF THE WEEK -

What would life be if we had no courage to attempt anything?
Vincent Van Gogh

1. [+ Whole Numbers to 10]

	-8	9	5	3	-4	-1	6	-2	-10	7
+7										

2. [- Whole Numbers to 10]

	18	7	10	9	16	-1	14	-2	13	17
-8										

3. [x Whole Numbers to 12]

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

4. [+ Whole Numbers to 12]

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

5. [Large Number +, -] *
3841 + 936 + 4815 =

6. [Large Number x, ÷] *
58,300 ÷ 50 =

7. [Powers of 10 x, ÷] *
8.09 × 1000 =

8. [Decimal +, -] *
5.03 + 0.564 + 0.207 =

9. [Decimal x, ÷] *
0.09 ÷ 0.3 =

10. [Fraction +, -] *
 $2\frac{4}{7} - 1\frac{5}{7} =$

11. [Fractions] *
Write 0.5 as a fraction in simplest form.

12. [Percents] *
Increase \$40 by 6% \$

13. [Rates / Ratios] *
The Amazon River Basin contains one fifth of the world's river water. Find the ratio of water in the Amazon Basin to river water in the rest of the world.

14. [Exponents / Square Roots]
 $3^5 =$

15. [Order of Operations] *
 $\sqrt{3^2 + 4^2} =$

16. [Factors / Multiples / Primes] *
Express 66 as the product of its prime factors.

17. [Number Patterns] *
1682, 1758, 1834, 1910, ,
[Halley's Comet]

18. [Number / Place Value] *
 $30\% < \frac{1}{3}$
True or false?

19. [Integers]
 $(-28) \div (-7) =$

20. [Word Numbers]
Express in numerals:
Eight million, seventy-four

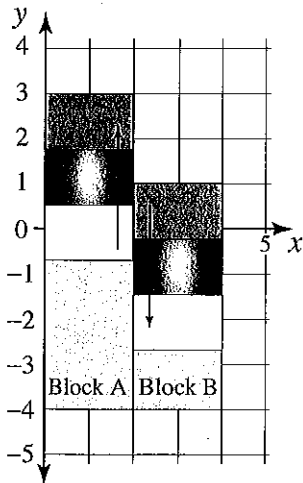
21. [Algebra - Like Terms]
Simplify
 $4d + 4d + e + e$

22. [Algebra - Substitution] *
If $u = 4$ and $v = 6$,
find the value of: $3uv$

23. [Algebra - Equations] *
 $15 + (4 \times \text{input}) = 23$

24. [Coordinate Planes]

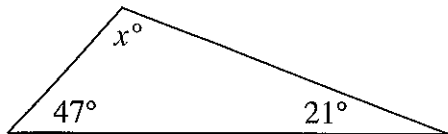
On a geological map, Block B has moved along a vertical fault line relative to Block A. Is this movement of Block B best described as:



- A) 4 right,
- B) 4 left,
- C) 2 down or
- D) 2 up?

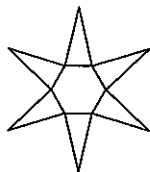
25. [Angles] *

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



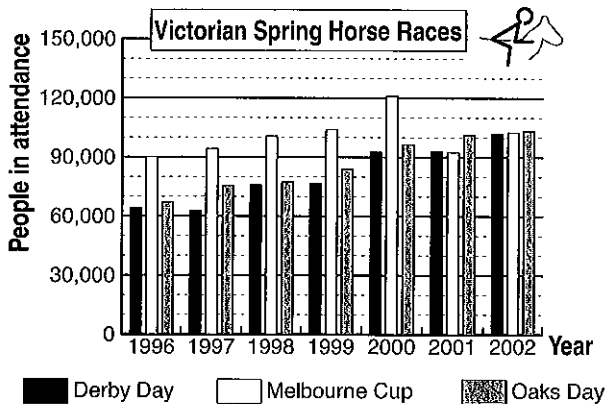
26. [Geometry]

How many lines of symmetry does this net of a regular hexagonal pyramid have?



27. [Data / Probability]

Which of these Victorian horse races had an increase in attendance every year between 1996 and 2002?

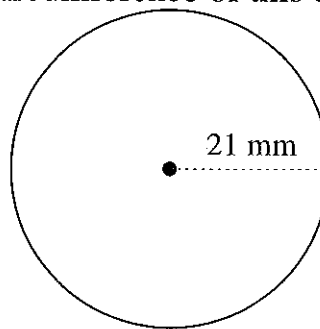


28. [Units of Measurement]

On average, people can hold their breath for one minute. The world record is seven and a half minutes. Express the record time in seconds.

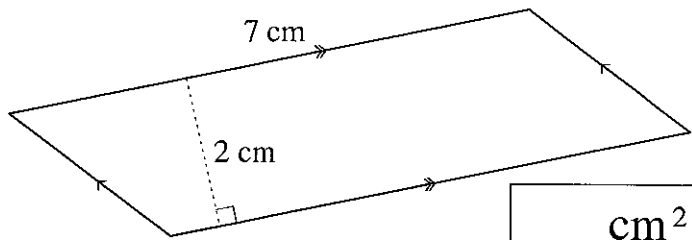
29. [Perimeter] *

Use $C = 2\pi r$ and $\pi \approx \frac{22}{7}$ to find the circumference of this circle.



30. [Area] *

Calculate the area of this parallelogram.



31. [Problem Solving 1] *

Peter and David live 18 miles apart. They leave their homes at 1:00 P.M. riding bicycles toward each other. Peter averages 4 mph and David averages 5 mph. At what time do they meet?

32. [Problem Solving 2] *

A hardware store sells house numerals. It has large quantities of the numerals 3, 5 and 8 but is out of all the others. How many different house numbers, with no more than three digits, can be made from these numerals?

[Digits can be repeated.]

33. [Problem Solving 3] *

A clock gains 4 minutes every hour. One day it is set to the correct time, 9:00 A.M. What is the correct time when the clock shows 1:00 P.M. that afternoon?