MATHS MATE 7

Term 2 - Sheet 5

Name: .....

Due Date: ...../...../.....

Parent's Signature:

QUOTE OF THE WEEK

Jones' Motto - Friends come and go but enemies accumulate.
Rossiter

1. [+ Whole Numbers to 10]

	11	6	12	7	15	18	3	9	14	1
+ 4										

2. [– Whole Numbers to 10]

	7	14	5	19	6	13	11	8	12	10
– 5										

3. [× Whole Numbers to 12]

	4	6	11	3	7	12	8	5	10	9
× 7										

4. [÷ Whole Numbers to 12]

	9	36	18	15	33	27	21	24	12	30
÷ 3										

5. [Large Number +,–]

$$\begin{array}{r} 1\,0\,6\,5 \\ +\quad 2\,8\,3 \\ \hline \square \end{array}$$

6. [Large Number ×,÷]

$$\begin{array}{r} 7\,5 \\ \times\quad 4 \\ \hline \square \end{array}$$

7. [Decimal +,–]

$$\begin{array}{r} 4.1\,2 \\ -\ 3.5\,7 \\ \hline \square \end{array}$$

8. [Decimal ×,÷]

$$8\overline{)0.4\,8}$$

$\square$

9. [Fraction +,–] *

$3 - \frac{3}{5} =$ $\square$

10. [Fraction ×,÷] *

$3 \div \frac{1}{2} =$ $\square$

11. [Percentages] *

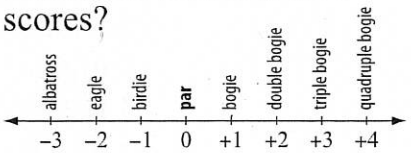
10% of \$300 = \$ $\square$

12. [Decimals / Fractions / Percentages]

Complete the equivalent fractions: $\frac{2}{3} = \frac{24}{\square}$

13. [Integers]

If Inbee Park scores an eagle and Tiger Woods scores a bogie, what is the difference between their scores?



$\square$

14. [Rates / Ratios] *

The slowest water animal is the seahorse. It moves at 16 metres per hour. At this rate how far does it move in 3 hours?

$\square$ m

15. [Indices / Square Roots]

$\sqrt{9} =$ $\square$

16. [Order of Operations] *

$(16 - 8) \div 2 =$ $\square$

17. [Exploring Numbers]

Express in numerals:
four thousand and sixty-two $\square$

18. [Multiples / Factors / Primes]

List all the factors of 15 in ascending order.

$\square$

19. [Number Patterns]

Complete the pattern:

3, 6, 12, 24, ___ , ___

20. [Expressions]

Simplify
$c + 2c + 3c$ $\square$

21. [Substitution] *

If $m = -2$, find the value of $3 - m$ $\square$

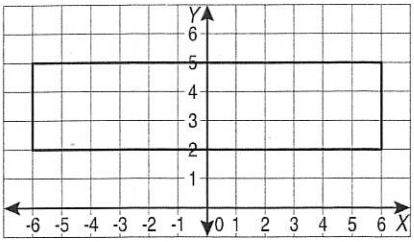
22. [Equations]

$\square - 6 = 19$

23. [Coordinates]

Which ordered pair lies within this rectangle?

A) (−2,1) B) (−6,6) C) (−5,4)

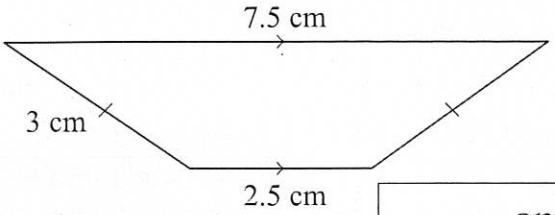


24. [Units of Measurement / Time] *

3000 cm = ☐ m

25. [Perimeter] *

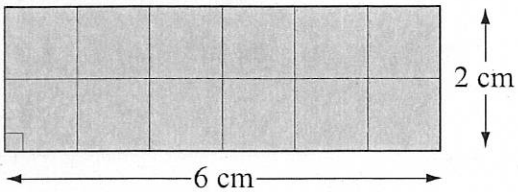
Calculate the perimeter of the trapezium.



☐ cm

26. [Area / Volume] *

Using Area = length × width, find the area of the rectangle.



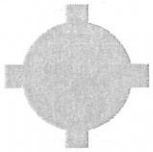
☐ cm^2

27. [Shapes]

Circle the triangle that is acute-angled.

28. [Location / Transformation]

By how many degrees must this shape be rotated to first match the original position?



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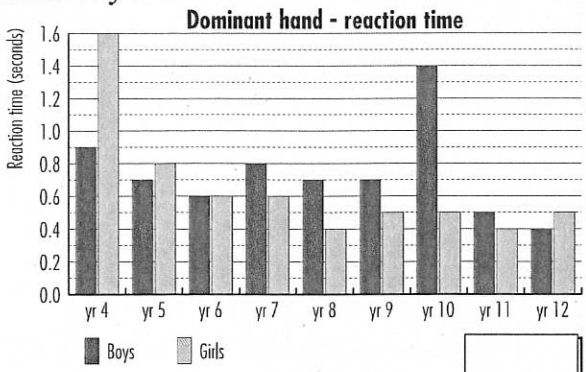
29. [Statistics]

In how many of the school years shown do girls have a quicker reaction time than boys?



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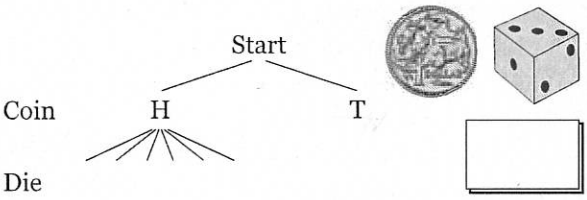
30. [Probability]

How many different outcomes are possible when flipping a coin and rolling a die? [Complete the tree diagram.]



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31. [Problem Solving 1] *

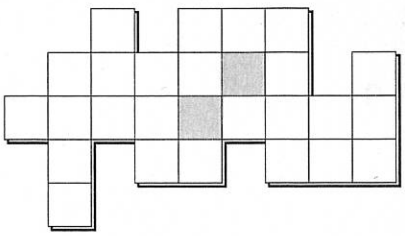
Isabelle wanted to arrange her football cards in pairs but was one card short. She tried to arrange them by fives and was still one card short. She finally arranged her cards by sevens. What is the least number of cards she could have had?

☐

32. [Problem Solving 2]

Fill in the cross number puzzle using the following numbers:

2 digits: 26 69 91
3 digits: 312 602 621 882 895
4 digits: 1958 1964 1989 1990 1993



33. [Problem Solving 3] *

Find the number of palindromes between 10 000 and 99 999 that are divisible by 25.

[A *palindrome* is a number that reads the same forwards and backwards, such as 22 or 91 319]

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