



The Association for Mathematics Education
of South Africa

KWAZULU NATAL PROBLEM SOLVING

MATHEMATICS CHALLENGE 2006

GRADE 4

DATE: WEDNESDAY 23 AUGUST 2006
DURATION: 1 hour

GENERAL INFORMATION

1. Congratulations on being selected to participate in this challenge.
2. This examination paper consists of 20 questions.
3. Enter your final answer in the correct block on the ANSWER SHEET. Working details are not required.
4. Candidates that qualify to the SECOND ROUND will be required to show full working details.
5. Each question is worth 1 point. No marks are deducted for incorrect answers.
6. Calculators or other computing devices are NOT allowed.
7. Some questions have blanks. You are expected to fill in the blanks.
8. For multiple choice questions, write only the LETTER of your choice.
9. Please do not turn over until the invigilator gives you the signal

1. What comes next?

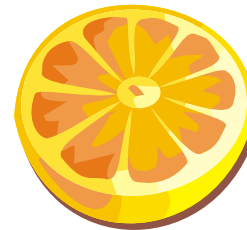
9 999; 9991; 9983; 9975;

2. The number sixty seven thousand two hundred and three can be written as

A. 60 723 B. 67 203
C. 67 230 D. 67 023

3. $23 - 9 = \dots - 23$

4. You buy 3 oranges with R10 and you get R2,80 change.



How much is one orange?

5. Zama buys 5 boxes of apples.

Each box contains 63 apples.

She packs 7 in a packet.

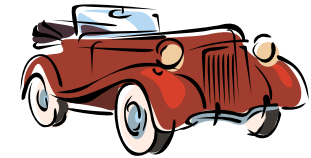
How many packets can she fill?

6. 3,2 kilograms = grams.

7. R47 is shared equally among 4 children.

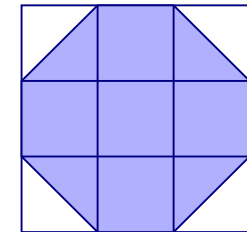
How much does each child get?

8. A car uses 12 litres of fuel per 100 km.



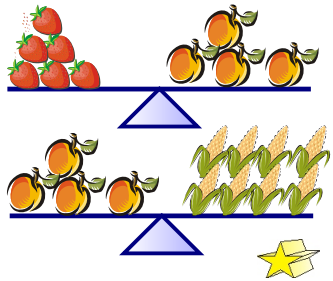
How much fuel does it use to cover 800 km?

9. A big square is made up of 9 small squares some of which are coloured.



What fraction of this big square is coloured in?

10. These objects are balanced.



How many  will balance nine  ?

11. Block A has 12 edges - some cannot be seen.



B

How many edges does B have?

12. What was the time on the clock shown 160 minutes ago?



13. Amy wants to go on holiday for 3 weeks.
Each week costs R76.00.
She has saved R232.00. How much more does she need?

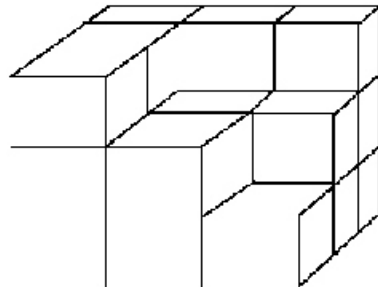
14. Brenda folds four pages in five minutes and Larissa folds five pages in four minutes.

How many pages are folded in twenty minutes if they work together?

15. MATHS IS FUN MATHS IS FUN MATHS IS FUN ...

If this pattern continues , what would be the 101st letter?

16. How many cubes were used to make this shape?



17. Noxolo has strands of beads in her hair.



Half the strands have 2 beads and half have 3 beads.

If she has 90 beads how many strands are in her hair?

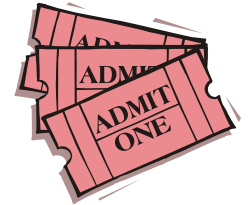
18. A packet of candyfloss cost R1 less than a packet of chips.



Jabu paid R90 for 6 packets of candy floss and 10 packets of chips. How much is a packet of chips?

19. Sren sells twice as many tickets as Li.

Beth sells 15 more tickets than Sren.

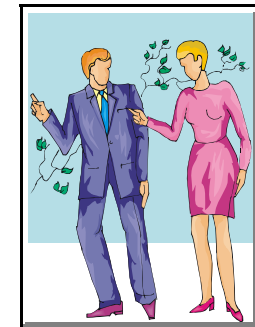


Angie sells 30 tickets.

This is 5 less than Beth sells.

How many does Beth sell?

20. 7 boys and 5 girls signed up for a dance competition.



At least how long will this competition take if every girl dances a full song with every boy, and a song is 5 minutes long?