

The contents of this test paper must remain *confidential* until June 9, 2006.

This part consists of short questions to be solved without a calculator. A correct answer gives 1 g-point (1/0) or 1 vg-point (0/1).

Time: 80 minutes for Part B1 and Part B2 together.
We recommend that you use 30 minutes at the most for working on Part B1. You may not use your calculator and formula sheet until you have handed in Part B1.

Only the answers are required. Write your answers in the spaces provided on this question page.

You can save time by doing mental arithmetic as much as possible.

Name: _____

School: _____ Class: _____

Birth date: Year ____ Month ____ Day ____

Female Male

1. How many millions does this calculator display show?



Answer: _____ (1/0)

2. Calculate $12.3 - 7.25$

Answer: _____ (1/0)

3. What number is the arrow pointing at?



Answer: _____ (1/0)

4. Calculate $4 + 6 \cdot 3$

Answer: _____ (1/0)

5. Calculate $\frac{30}{0.6}$

Answer: _____ (1/0)

6. Solve the equation $x + 6 = -2$

Answer: $x =$ _____ (1/0)

7. What is the half of $1\frac{1}{2}$?

Answer: _____ (1/0)

8. Andreas has 4 km to school. How many minutes does it take for him to bike to school if he keeps an average speed of 16 km/h?

Answer: _____ min (1/0)

9. A puppy eats 0.4 kg of dry dog food every day. A bag of dog food weighs 20 kg. How long will it last?

Answer: _____ days (1/0)

10. The perimeter of a square is 28 cm. Find the area of the square.

Answer: _____ cm² (1/0)

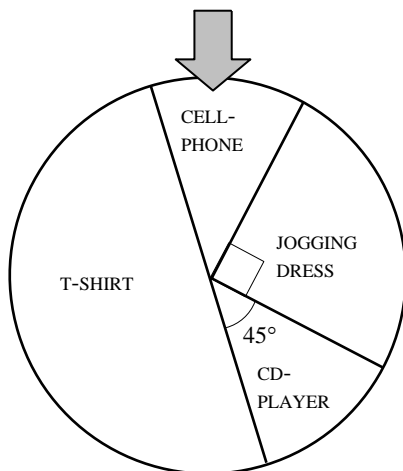
11. One of the angles in an isosceles triangle is 130°. Find the other two angles.

Answer: _____ ° and _____ ° (0/1)

12. On a map in the scale 1:50 000 the distance between two towns is 6 cm. How many kilometres is that in reality?

Answer: _____ km (0/1)

13. Pelle wins the lottery and gets the chance to spin the wheel of fortune. When the wheel stops the arrow points at the sector showing Pelle's prize. What chance does he have of winning a cellphone?



Answer: _____ (0/1)

14. $7.3 \cdot 10^n = 7\ 300$
What number does n stand for?

Answer: _____ $n =$ _____ (0/1)

15. State a formula that expresses the relationship between a and b .

a	b
10	2
15	3
25	5
50	10

Answer: _____ (0/1)

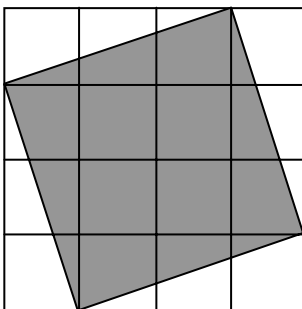
16. One year, the Persson family paid 18 000 kr in interest for their house loan. The interest rate was 3 %. How big was the loan?

Answer: _____ kr (0/1)

17. One edge of a cube has the length $2a$. Which of the following expressions gives the volume of the cube? Circle your choice.

$6a$ $8a$ $4a^2$ $2a^3$ $8a^3$ (0/1)

18. How large part of the figure is shaded?



Answer: _____ (0/1)

19. Simplify as much as possible $\frac{a + 2a + 3a}{a}$

Answer: _____ (0/1)

20. Solve the equation $\frac{x - 0.2}{0.1} = 1$

Answer: _____ $x =$ _____ (0/1)