

MATHEMATICS TEST

Year 9 – Part B1

For this material *the secrecy* is valid until the end of June 2012.

This part is composed of short answer items, which shall be solved without the use of a calculator. A correct answer gives 1 g-point (1/0) or 1 vg-point (0/1).

Test period: 80 minutes for Part B1 and Part B2 as a whole. We recommend that you use at the most 30 minutes to work with Part B1. You must not use the calculator before you have handed in Part B1.

Only answers are required. The answers are to be written on the test paper.

To save time use mental arithmetic as much as possible.

Name: _____

School: _____ Class: _____

Date of birth: Year _____ Month _____

Day _____

Girl ☐ Boy ☐

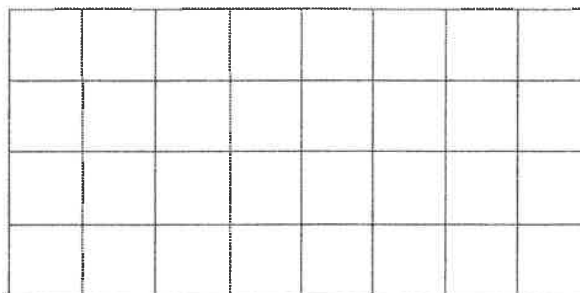
1. Fill in the amount in words.

Account number:		Please prove your identity.	Withdrawal
Amount in words:	Kronor	Amount in figures:	Kronor 10 105:-
The amount above is hereby acknowledged:	Signature	Linda Larsson	

(1/0)

2. Draw a *triangle* with an area of 4 cm^2 .

Draw here:

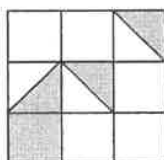


(1/0)

3. Kalle is to take a bus that leaves at 8.07. When does he have to leave home at the latest if he needs 13 minutes to walk to the bus?

Answer: _____ (1/0)

4. How large part of the figure is shaded? Circle your answer.



$$\frac{4}{8}$$

$$\frac{4}{9}$$

$$\frac{5}{9}$$

$$\frac{4}{18}$$

$$\frac{5}{18}$$

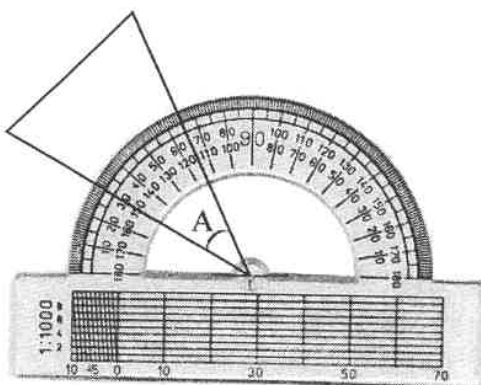
(1/0)

5. Show in any way how you calculate $91 - 19.8$ without a calculator.

Work it out here:

(1/0)

6. Find the measure of the angle A in the triangle?



Answer: _____ degrees (1/0)

7. $\frac{8}{0.5} =$

Answer: _____ (1/0)

8. Circle the equation that has the solution $x = 3$

$x + 2 = 1$

$\frac{x}{3} = 3$

$\frac{x+4}{3} = 4$

$3x - 3 = 6$

$\frac{6}{x} = 3$

(1/0)

9. 40 bags of chips weigh 5 kg. Find the weight of one bag.
What calculation do you use? Circle your answer.

40/5

40 - 5

40 · 5

5/40

40 + 5

(1/0)

10. What number in the square will make the equality true?

$$17 - 4 \cdot \square = 5$$

Answer: _____

(1/0)

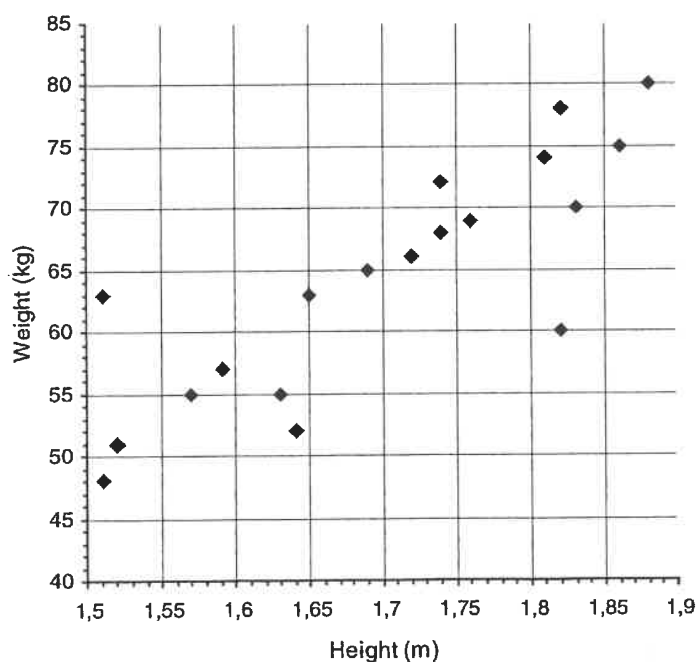
11. A motorbike runs 11 km in 10 minutes.
Calculate in km/h the average speed of
the motorbike.

Answer: _____ km/h

(1/0)

12.

Height and weight in 9b



- a) Viktor has a weight of 65 kg. How tall is he?

Answer: _____ m

(1/0)

- b) What is the median height in the class?

Answer: _____ m

(0/1)

13. In which one of the following calculations do you get the *smallest* number? Circle your answer.

$$25/0.96$$

$$25 \cdot 0.96$$

$$25/0.99$$

$$25 \cdot 0.99$$

(0/1)

14. Make an estimation and circle the best alternative to $0.39 \cdot 0.84$.

$$0.033$$

$$0.12$$

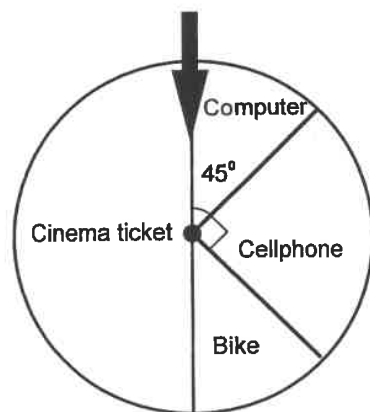
$$0.33$$

$$1.2$$

$$3.3$$

(0/1)

15. Martin turns a wheel of fortune. When the wheel stops the arrow points at a field. The arrow shows what Martin has won. What is his chance of winning a bike?



Answer: _____ (0/1)

16. Give an example of a fraction that is larger than $\frac{6}{7}$ but smaller than 1.

Answer: _____ (0/1)

17. During a week Sara read off the following temperatures at 13.00 o'clock:

Day	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
Temp ° C	-3	3	-2	4	-2	-3	-4

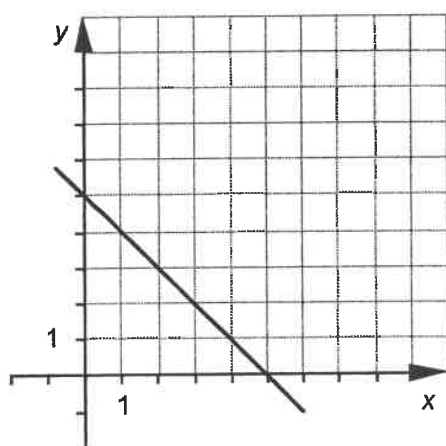
Find the average temperature.

Answer: _____ ° C (0/1)

18. For what value of x is $7(x - 2) = 49$

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

19. Which one of the expressions below describes the graph in the diagram? Circle the correct alternative.



$y = x + 5$ $y = 5 - x$ $y = \frac{x}{5}$ $y = x - 5$ $y = 5x$ (0/1)