

# Mathematics

Delprov B

Årskurs

6

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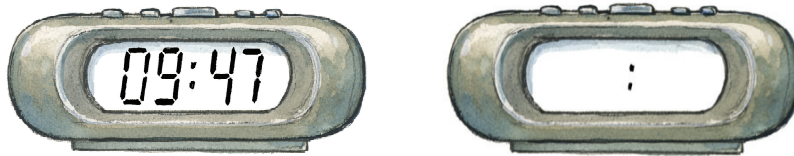
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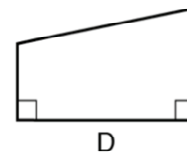
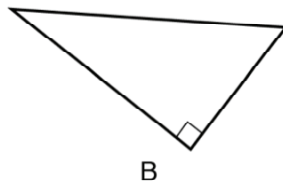
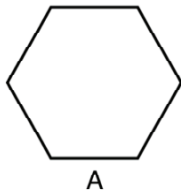
1. a) What was the clock showing 50 minutes ago? (1/0/0)  
 Fill in the clock.



- b) The clock is showing 09:47. What will the clock show in 35 minutes? (1/0/0)  
 Fill in the clock.



2.



Which figure or figures have

a) exactly three corners? Answer: \_\_\_\_\_ (1/0/0)

b) at least one right angle? Answer: \_\_\_\_\_ (1/0/0)

c) at least two obtuse angles? Answer: \_\_\_\_\_ (1/0/0)

3. Solve the tasks and show your workings.  
Use the grid if you want.

a)  $1261 - 957 =$

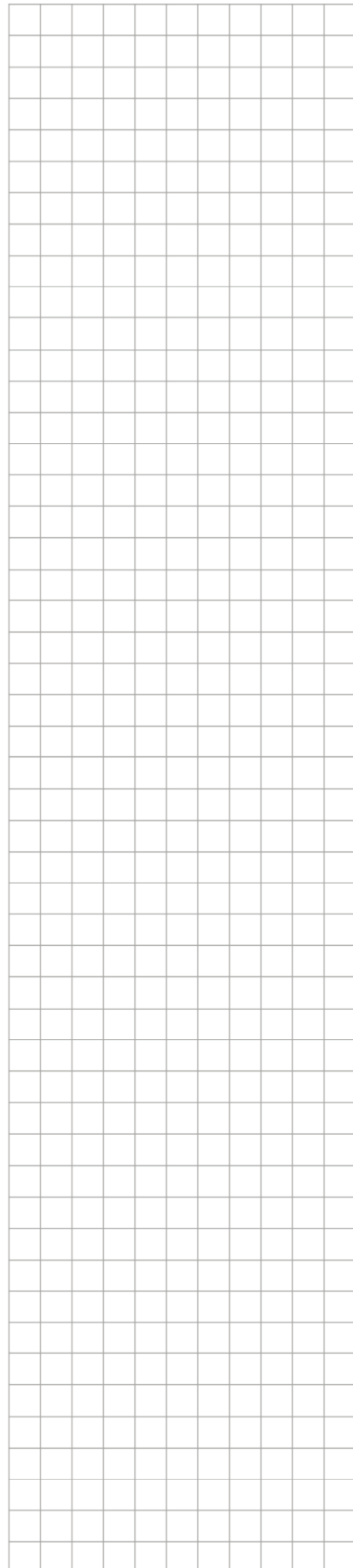
(2/0/0)

b)  $346 \times 8 =$

(2/0/0)

c)  $\frac{8742}{6} =$

(1/1/0)



4. Leo and Maja play a game. Maja has 187 points. (2/0/0)  
Leo has 29 points more than Maja.  
How many points do they have altogether?  
*Show your workings.*

5. Write the missing numbers so that each equation is correct.

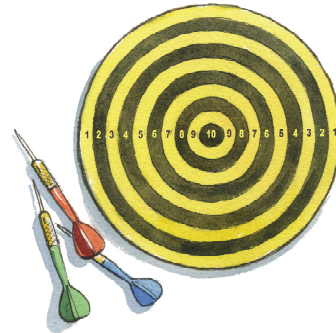
a)  $300 - \underline{\hspace{2cm}} = 167$  (1/0/0)

b)  $2 \times 42 = 4 \times \underline{\hspace{2cm}}$  (1/0/0)

c)  $\frac{56}{8} = \underline{\hspace{2cm}} - 10$  (0/1/0)

6. Ludvig, Samira, Maja and Kevin throw three darts each. Each dart can give 0–10 points.

|        | Dart 1   | Dart 2    | Dart 3   |
|--------|----------|-----------|----------|
| Ludvig | 4 points | 9 points  | 5 points |
| Samira | 4 points | 10 points | 7 points |
| Maja   | 1 point  | 7 points  | 2 points |
| Kevin  | 3 points | 7 points  | 1 point  |



- a) The table shows the number of points for each dart. What is the mode of all of the darts they have thrown? (1/0/0)

Answer: \_\_\_\_\_

- b) Calculate the mean of Ludvig's points. Show your workings. (2/0/0)



7.

- There are the same amount of coins in each bag. How many coins are there in *one* bag? (1/0/0)

Answer: \_\_\_\_\_

8. What is  $8.00 - 4.73$ ? (1/0/0)  
*Circle your answer.*

4.73      4.37      4.27      3.73      3.37      3.27

9. Which number is roughly equivalent to  $24 \times 0.6$ ? (0/1/0)  
*Circle your answer.*

5      0.12      1.4      14      24.6      124

10. Maja has used a calculator to solve a problem. She got the answer 4.5. (0/1/0)  
 Which of the calculations did she do?  
*Circle your answer.*

$3.8 + 1.7$        $\frac{45}{100}$        $10.0 - 6.5$        $\frac{36}{8}$        $4 \times 1.5$

11. Which number agrees with all three points? (2/0/0)  
*Select **one** number from the box and circle it.*

- It is an odd number.
- The number is less than 400.
- The number can be divided by 3.

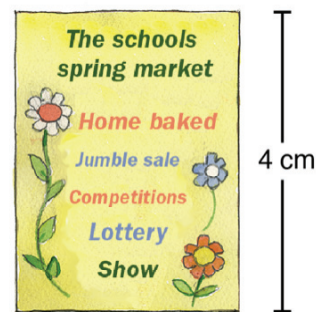
|     |     |     |
|-----|-----|-----|
| 423 | 312 | 95  |
| 199 | 309 | 170 |

12. Samira and Leo are buying sweets for all the pupils in their class. (1/1/0)  
 There are 30 pupils in the class. Each pupil will be given a bag containing 1.5 hg of sweets.  
 How many kilograms do they need to buy?  
*Show your workings.*



13. Leo and Maja make a sign for the market. (0/1/0)  
 What is the height of the real sign?  
 Give your answer in metres.

Answer: \_\_\_\_\_ m



Scale 1:30

14. One of the equations has the solution  $x = 12$ . Which one? (0/1/0)  
*Circle your answer.*

$$18 - 6 = x + 12$$

$$12 = \frac{24}{x}$$

$$7 \times 4 = 2 \times x$$

$$\frac{x}{3} + 3 = 7$$

$$x + 1 = 13 - 1$$



15. Draw a geometric figure that agrees with all four points. (1/1/0)  
Use a ruler.

- The figure has only four corners.
- At least three sides have different lengths.
- Only one side is 5 cm.
- Two sides are parallel.



16. Samira buys apples that cost SEK  $x$  per kg. She buys 3 kg. (0/0/2)  
Write an expression for how much money she will get back when she pays with a SEK 50 note.

Answer: \_\_\_\_\_

17. You know that  $\frac{235}{50} = 4.7$ . If so, how much is  $\frac{235}{0.5}$ ? (0/0/1)

Answer: \_\_\_\_\_





