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# Mathematics

## Screening test 6+

Name: \_\_\_\_\_

***STOP!***

*Only turn the page and start,  
when the test administrator says so!*

*Please complete the following tasks without a calculator!  
Use the empty spaces for your calculations!*



## Part I

### Task 1.1

Look at the numbers.  
Find the missing numbers.  
Write the numbers.

a)  $3 \cdot \underline{\quad} = 126$

c)  $54 : \underline{\quad} = 6$

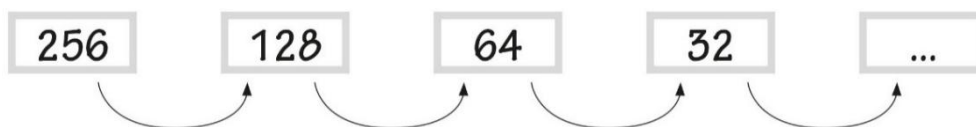
b)  $172 = 4 \cdot \underline{\quad}$

d)  $\underline{\quad} : 3 = 27$

       / 4

### Task 1.2

Look at the numbers.  
See how they change.  
What is the rule to continue the sequence?  
Put a cross (X) on the correct rule.



- ☐ Subtract 32
- ☐ Subtract 128
- ☐ Divide by 4
- ☐ Divide by 2

       / 1

### Task 1.3

Do the calculation.

$14 + 2 \cdot 3 = \underline{\quad}$

       / 1



### Task 1.4

Tom follows the instructions:

*The number 4 is added to 5.*

*The result is multiplied by 8.*

Look at Tom's result.

Which calculation can Tom use?

Put a cross (X) on the box in front of it.

☐  $5 + 4 \cdot 8$

☐  $(5 + 4) \cdot 8$

☐  $5 + (4 \cdot 8)$

☐  $5 \cdot 8 + 4$

\_\_\_ / 1

### Task 1.5

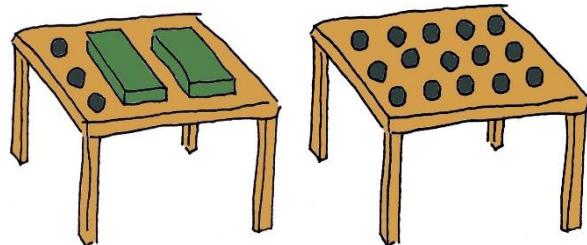
Look at the picture.

In the picture two tables are shown.

There are marbles and boxes on two tables.

Each box has the same number of marbles.

Table 1 and table 2 have the same number of marbles.



How many marbles are in one box?

Answer:

\_\_\_ / 1

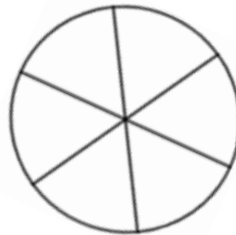
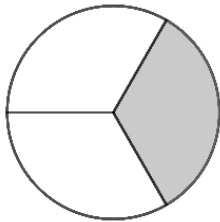
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## Part II

### Task 2.1

Look at the picture below.  
There are two circles.  
The first one has a coloured part.  
Shade the second circle the same as the first.  
Write the equal fractions.



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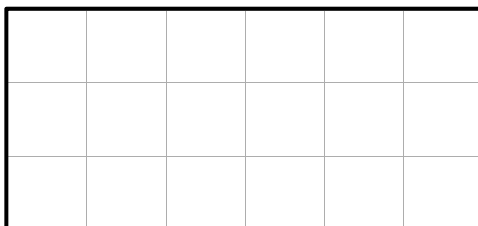
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### Task 2.2

Look at the rectangle.

Colour  $\frac{2}{6}$  parts.

Do not colour the other parts.



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### Task 2.3

2 kg of potatoes cost 5 €.  
6 kg is more potatoes.

How much do 6 kg cost?  
Answer: \_\_\_\_\_ €

\_\_\_ / 1

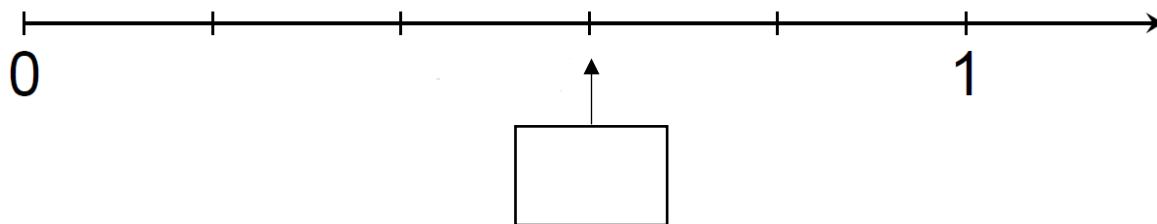
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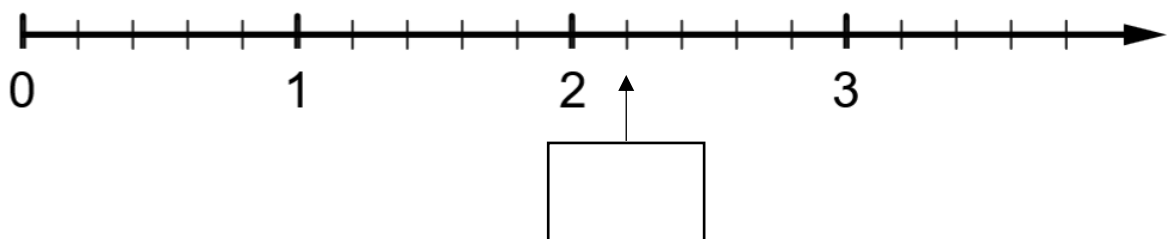
## Part III

### Task 3.1

Look at the point on the number line.  
Find the number.  
Write the number in the box.  
a)



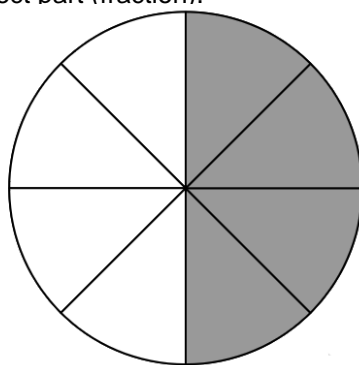
b)



\_\_\_ / 2

### Task 3.2

Look at the circle.  
See the coloured part.  
Put a cross (X) on the correct part (fraction).



☐  $\frac{1}{2}$

☐  $\frac{1}{8}$

☐  $\frac{8}{4}$

☐  $\frac{1}{4}$

\_\_\_ / 1



### Task 3.3

Look at the numbers.

Put a cross (X) on all numbers that are bigger than  $\frac{10}{3}$

☐ 2

☐ 3

☐ 4

☐ 5

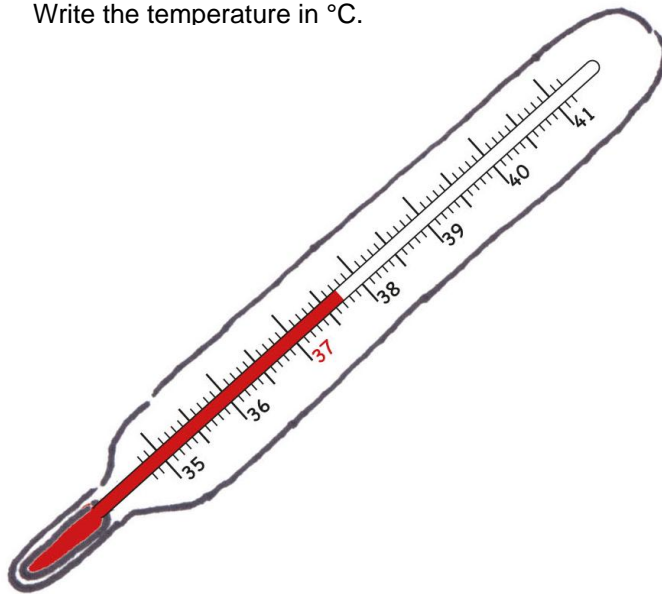
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### Task 3.4

Look at the thermometer.

Read the number.

Write the temperature in °C.



Answer: \_\_\_\_\_ °C

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### Task 3.5

Look at all the numbers.

Find the biggest number.

Put a cross (X) on the box in front of it

☐ 3,33

☐ 3,303

☐ 3,03

☐ 3,3

\_\_\_ / 1

### Task 3.6

Look at the number pattern.

Find the missing number.

Write the number.

a)  $1,8 + \underline{\hspace{2cm}} = 5,3$

b)  $\underline{\hspace{2cm}} + 0,51 = 2$

\_\_\_ / 2

\_\_\_ / 5



### Task 3.7

Do the calculation.

a)  $23,5 - 1,12 = \underline{\hspace{2cm}}$

b)  $6 \cdot 2,5 = \underline{\hspace{2cm}}$

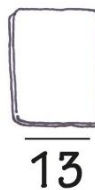
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### Task 3.8

Look at the 5 cards.  
Each card has a number.



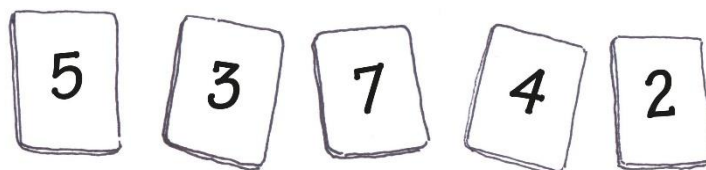
Look at all the cards.  
Try each card in the fraction.  
Choose the card that makes the fraction the biggest.



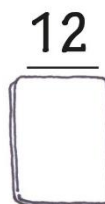
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### Task 3.9

Look at the 5 cards.  
Each card has one number.



Look at all the cards.  
Try each card in the fraction.  
Choose the card that makes the fraction the biggest.



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     / 4