



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!



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Part I

Task 1.1

Find the missing numbers.

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

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

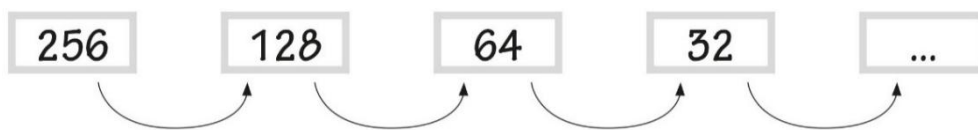
b) $172 = 4 \cdot \underline{\quad}$

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

$\underline{\quad} / 4$

Task 1.2

Which is the rule that can be used to continue this sequence of numbers?



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

$\underline{\quad} / 1$

Task 1.3

Calculate:

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

$\underline{\quad} / 1$



Task 1.4

Tom follows the instructions:

The number 4 is added to 5.

The result is multiplied by 8.

What calculation can Tom use to obtain the result?

- $5 + 4 \cdot 8$
- $(5 + 4) \cdot 8$
- $5 + (4 \cdot 8)$
- $5 \cdot 8 + 4$

___ / 1

Task 1.5

The picture shows marbles and boxes, placed on two tables.

Each box contains the same number of marbles.

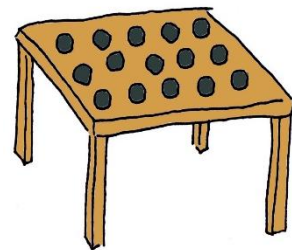
There are the same number of marbles on each table.

How many marbles are there in each box?

Table 1



Table 2



Answer:

___ / 1

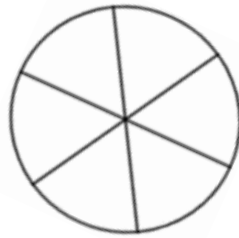
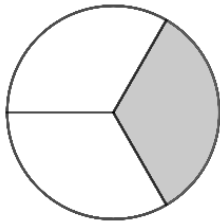
___ / 2



Part II

Task 2.1

Shade the second circle so that it represents a fraction equivalent to the coloured part of the first circle, and write the equivalent fractions using numerals.


$$\frac{\square}{\square}$$

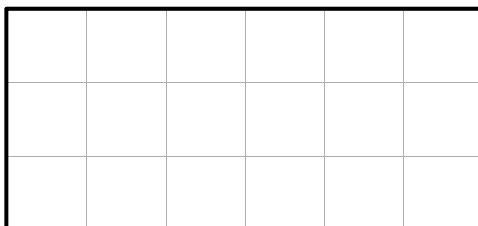
=

$$\frac{\square}{\square}$$

___ / 1

Task 2.2

Colour $\frac{2}{6}$ of the rectangle:



___ / 1

Task 2.3

2 kg of potatoes cost 5 €. Determine the price for 6 kg of potatoes.

___ / 1

___ / 3

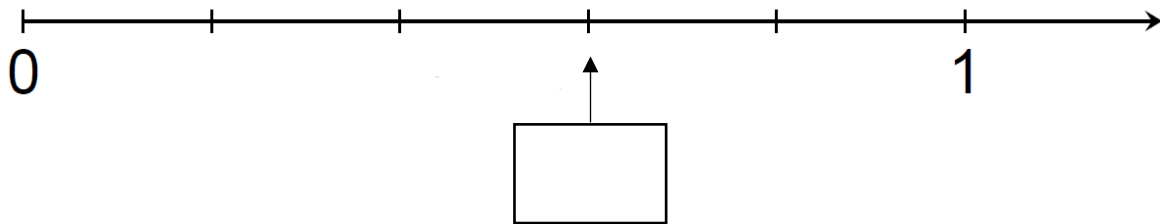


Part III

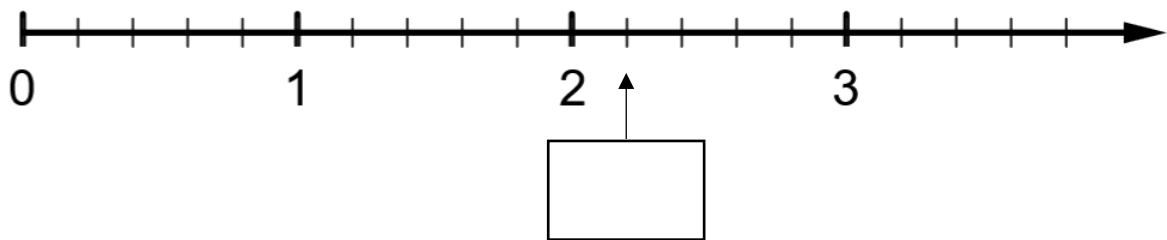
Task 3.1

Write a number in the box that represents the position on the number line.

a)



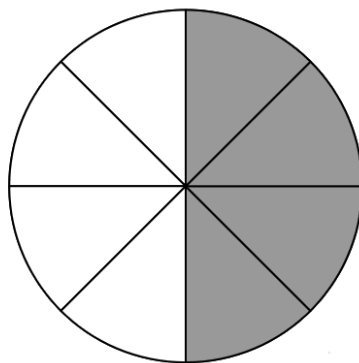
b)



___ / 2

Task 3.2

Which part of the circle is coloured?



$\frac{1}{2}$

$\frac{1}{8}$

$\frac{8}{4}$

$\frac{1}{4}$

___ / 1

___ / 3



Task 3.3

Mark with a cross **all** natural numbers that are greater than $\frac{10}{3}$

2

3

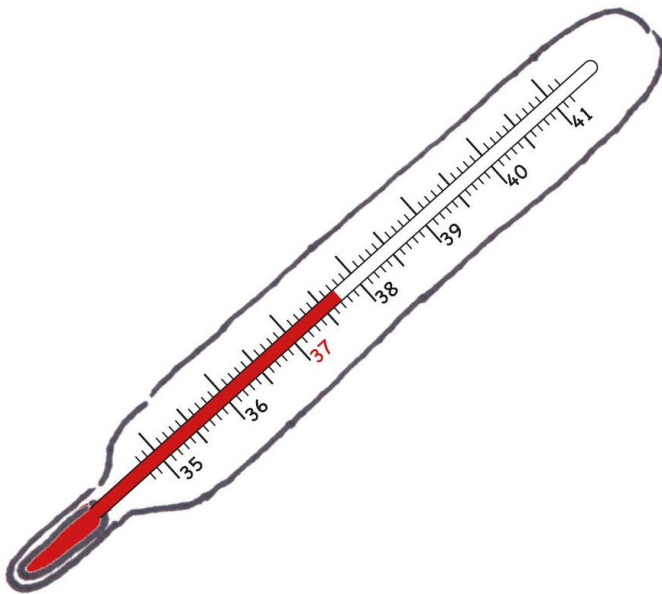
4

5

___ / 1

Task 3.4

Write down the measured temperature in °C.



Answer: _____ °C

___ / 1

Task 3.5

Determine the largest number:

3,33

3,303

3,03

3,3

___ / 1

Task 3.6

Determine the missing number.

a) $1,8 + \underline{\quad} = 5,3$

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

___ / 2



Task 3.7

Calculate:

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

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

 / 2

Task 3.8

Below are 5 cards, each with a number written on it.



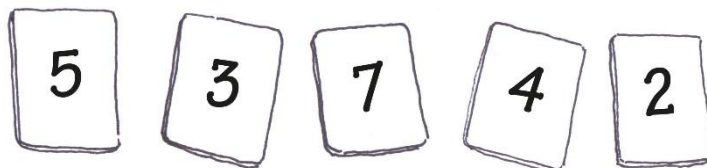
Choose the suitable card to make the value of the fraction the largest.

$$\frac{\boxed{}}{13}$$

 / 1

Task 3.9

Below are 5 cards, each with a number written on it.



Choose the suitable card to make the value of the fraction the largest.

$$\frac{12}{\boxed{}}$$

 / 1

 / 4