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

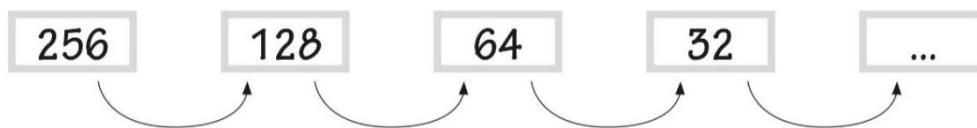
b) $172 = 4 \cdot \underline{\quad}$

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.

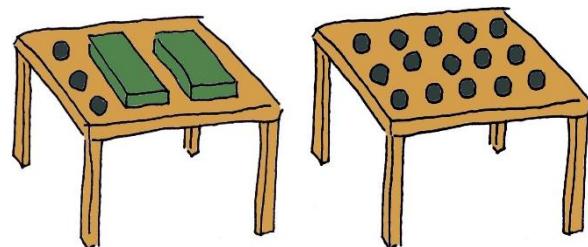
In the picture two tables are shown.

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

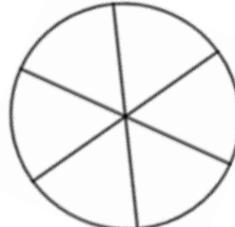
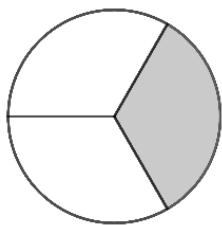
___ / 2



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.



$$\frac{\boxed{}}{\boxed{}} = \frac{\boxed{}}{\boxed{}}$$

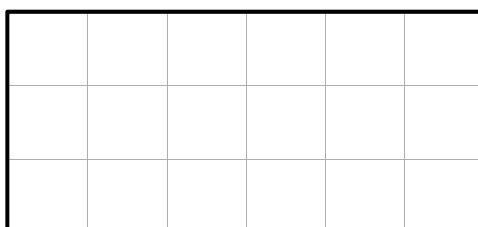
___ / 1

Task 2.2

Look at the rectangle.

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

Do not colour the other parts.



___ / 1

Task 2.3

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

How much do 6 kg cost?
Answer: _____ €

___ / 1

___ / 3



Part III

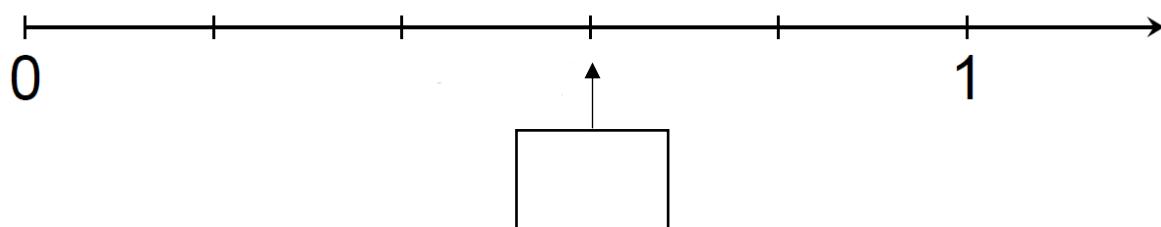
Task 3.1

Look at the point on the number line.

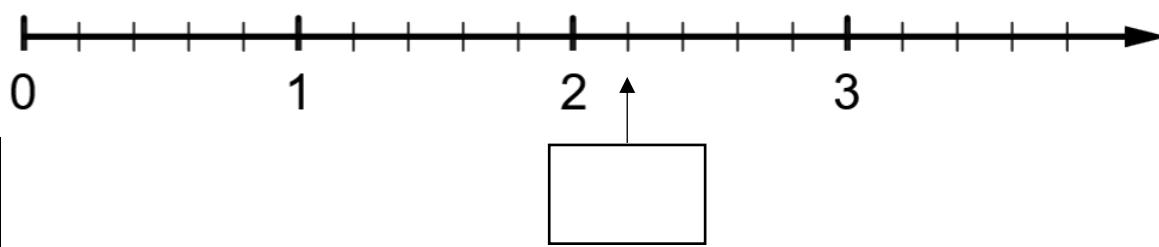
Find the number.

Write the number in the box.

a)



b)

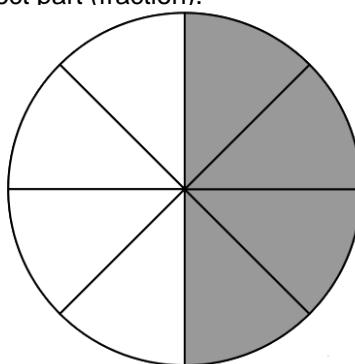


Task 3.2

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

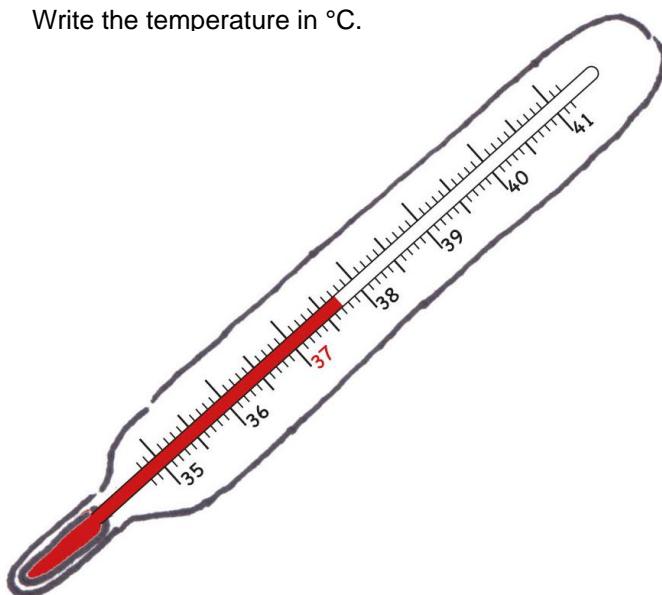
4

5

___ / 1

Task 3.4

Look at the thermometer.
Read the number.
Write the temperature in °C.



Answer: _____ °C

___ / 1

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

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

___ / 2

___ / 5



Task 3.7

Do the calculation.

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

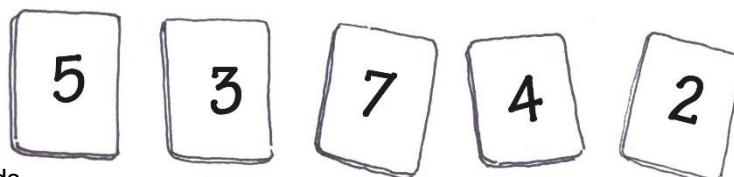
b) $6 \cdot 2,5 = \underline{\hspace{2cm}}$

___ / 2

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.

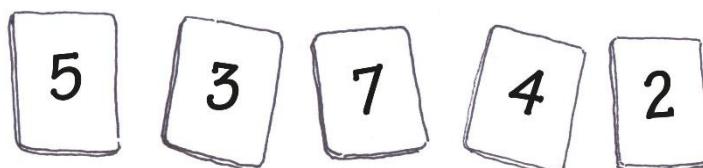
$$\frac{\underline{\hspace{2cm}}}{13}$$

___ / 1

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.

$$\frac{12}{\underline{\hspace{2cm}}}$$

___ / 1