Homework

Friday 28th June 2024

Please complete the following:

Maths	Transition into Year 7 maths activity sheet.
	You may complete your homework on the sheet

If you need any further guidance on how to complete the tasks, please ask! Don't leave it until Wednesday!

Remember, have a go and try your best.

Year 7 Transition Refresher Maths Activities

a

Calculate 3.9 × 30.

c

$1\frac{3}{4} + \frac{1}{2}$

Write your answer as a mixed number fraction.

e

Two of the angles in a triangle are 60° and 50°.

Logan says, 'The triangle must be isosceles.'

Explain why Logan is not correct.

b

Molly completes this calculation:

$$\begin{array}{r} 8\,5 \\ -\,6\,8 \\ \hline 1\,7 \\ \hline \end{array}$$

Write an **addition** calculation she could use to check her answer.

d

Jamie has £300. He spends 65% of the money on a new bike.

How much does Jamie spend on his new bike?

f

The numbers in this sequence **decrease** by the same amount each time.

204 718, 203 718, 202 718, 201 718, 200 718

What is the next number in the sequence?

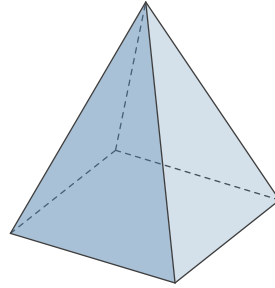# Year 7 Transition Refresher Maths Activities ②

a A book has 316 pages. Ameena reads $\frac{1}{4}$ of the pages.

How many pages does Ameena have left to read?

b The temperature in the fridge is 6°C.

The temperature in the freezer is -22°C.

What is the **difference** between the two temperatures?

c Here is a drawing of a 3D shape.

Identify the number of faces, vertices and edges which the shape has:

Faces:

Vertices:

Edges:

What is the name of this 3D shape?

d Calculate 0.1 ÷ 100.

e Identify all the common factors of 12 and 28.

f There are 24 students in a class.

The teacher has 8 litres of blackcurrant squash.

They pour 275 millilitres of blackcurrant squash for each student.

How much squash is **left** over? Give your answer in litres.

a

0.25, $\frac{3}{12}$, $\frac{14}{100}$, 0.5,

Which **two** numbers from the list are equivalent to $\frac{1}{4}$?

b

Here are four number cards:

| 6 | 1 | 7 | 5 |

i. Ava uses each card once to make a four-digit number. She places:

5 in the hundreds column;

6 so that it has a lower value than any of the other digits;

The remaining 2 digits so that 1 has the higher value.

What is Ava's number?

ii. Ava was given an extra card. When she multiplied the number on the card by 1576, the result was 15 760.

What number was on the card?

c

Calculate $\frac{1}{4} \div 2$.

d

Elijah buys 4 large crates of oranges and 3 small crates of oranges.

Each large crate has 32 oranges and each small crate has 16 oranges.

Elijah would like to give 1 orange to each student in his year group.

If there are 180 students in his year group, does he have enough oranges so that every student receives 1 orange each?
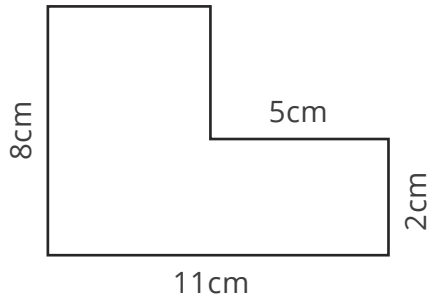
e

Calculate $8^2 - 45 \div 5$.

f

Calculate 99% of 500.

Year 7 Transition Refresher Maths Activities (4)

a

What number is 10 times greater than two hundred and ninety-seven?

b

Calculate the area and perimeter for the following shape. Don't forget the units in your answer.

c

Calculate 2814 × 45.

d

Calculate 64.25 + 24.5.

e

A child's heart beats an average of 80 times per minute.

How many times, on average, will it beat between 8.30am and 3.30pm on the same day?

f

I think of a number.

I add 42 then multiply by 3.

Finally, I halve it. The result is 75.

What number was I thinking of?

a

Round 82 275 to the nearest:

  i. 10

  ii. 100

  iii. 1000

  iv. 10 000

b

Calculate the missing angle, a.

145° $a°$

c

Draw all the lines of symmetry on the diagram below.

d
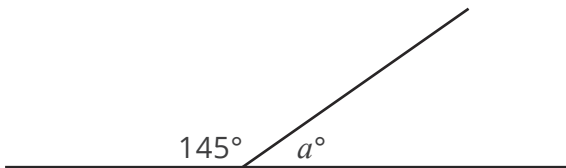
A farmer is packing eggs.

Each box holds six eggs.

The farmer has 860 eggs to pack.

  i. How many boxes can the farmer fill?

  ii. How many eggs will be left over?

e

Calculate 6082 − 467.002.

f

A bag contains 7 red beads, 4 blue beads, 5 orange beads and 2 pink beads.

If a bead is picked at random, what is the probability of getting:

  i. A red bead?

  ii. A blue or pink bead?

  iii. Not an orange bead?

Year 7 Transition Refresher Maths Activities ⑥

a

Using <, = or >, write the correct symbol in each box to make the statements correct.

11 × 8 ☐ 6 × 14

90 ÷ 30 ☐ 80 ÷ 40

30 × 2 ☐ 15 × 4

155 ÷ 5 ☐ 160 ÷ 4

b

Write these fractions in order, starting with the smallest.

$\frac{7}{6}$ $\frac{4}{6}$ $\frac{6}{18}$

c

Lily should have divided a number by 4, but instead she subtracted 4.

She got the answer 88.

What should her answer have been?

d

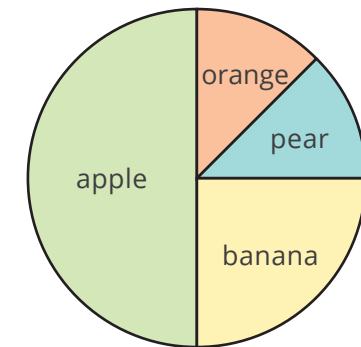Write the following in order, starting with the smallest:

2.09, 2.9, 20.9, 2.19, 2.009

e

Write:

i. 420mm in cm

ii. 67cm in m

iii. 5.45kg in g

iv. 880ml in l

v. 312cm in mm

f

A teacher carried out a survey to find out students' favourite fruit. They drew a pie chart to show the results.

i. If 6 students chose banana, how many students chose apple?

ii. How many students, in total, were asked in the survey?