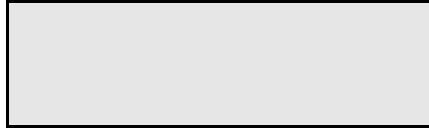


YEAR 7 NUMERACY – SET 6

Answer these questions without using a calculator.

Name Date

The area of this rectangle is 112 cm^2 and its width is 8 cm.



1

The perimeter of this rectangle

is

14 cm

22 cm

44 cm

56 cm

A number is multiplied by the number 3 less than itself.
The result is 54.

2

The number is

6

9

18

30

If these fractions are ordered from smallest to largest, which one is **second** on the list?

3

$\frac{3}{4}$

$\frac{3}{5}$

$\frac{7}{10}$

$\frac{2}{3}$

When $z = 4$, $t = 17$ and when $t = 5$, $z = 2$.

Which one of these rules relates the values of z and t ?

4

$t = 4 \times z + 1$

$z = (t + 3) \div 5$

$6 \times z - 7 = t$

$21 - t = z$

A set of cards that has the multiples of 3 written on them, begins with 3 and ends with 36.
Without looking, Bill takes a card.

5

What is the chance that Bill's card contains the digit "2" in its number?

YEAR 7 NUMERACY – SET 6

The ratio of red kangaroos to grey kangaroos in a wilderness area is 3:7.

The total number of kangaroos in the area is 210.

6 How many **more** grey kangaroos are there in the wilderness area than red kangaroos?

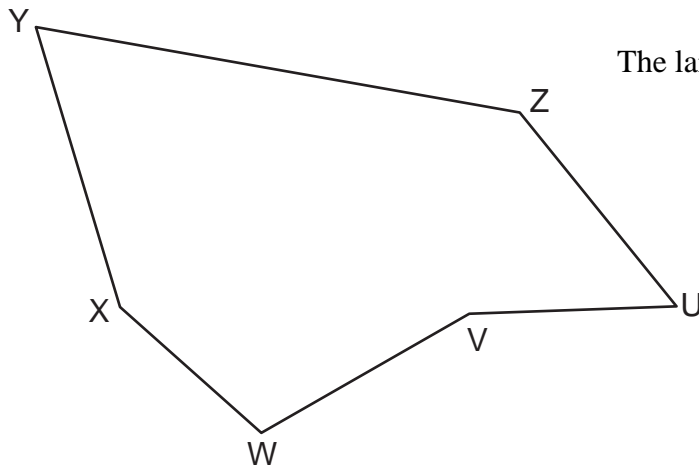
63

70

84

147

7



The largest angle inside this hexagon is at

V

W

X

Z

On average, grey seals sleep for 6.2 hours each day.

The fraction of each day an average grey seal spends **awake** is closest to

8

one-sixth.

two-thirds.

one-quarter.

three-quarters.