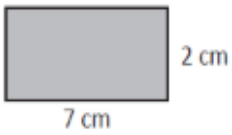
Year 4 Maths – Summer 2, Week 1
Finding the Perimeter of Rectilinear Shapes

Day 1

1.

These shapes are not to scale, so you can't use your ruler to work out the perimeter. Can you find the perimeter of these shapes?

a

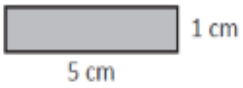


P = ____ cm

b

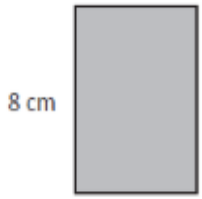
P = ____ cm

c



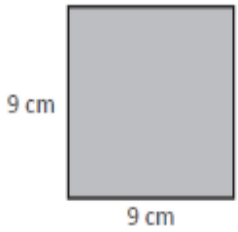
P = ____ cm

d



P = ____ cm

e



P = ____ cm

2.

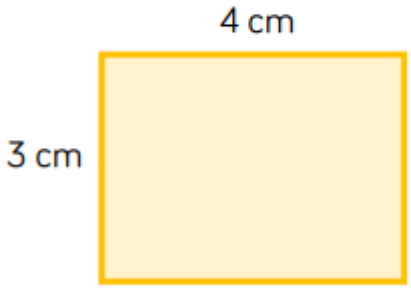
Circle the correct perimeter for these rectangles:

a	Length 12 cm, Width 8 cm	32 cm	40 cm	20 cm
b	Length 14 mm, Width 12 mm	26 mm	52 mm	40 mm
c	Length 8.5 cm, Width 2.7 cm	22.4 cm	112 cm	11.2 cm
d	Length 10.2 cm, Width 8.4 cm	85.68 cm	36 cm	37.2 cm
e	Length 22 mm, Width 11 mm	6.6 cm	33 mm	60 mm

3.

Amir is measuring the shape below.
He thinks the perimeter is 7 cm.

Can you spot his mistake?



Answer

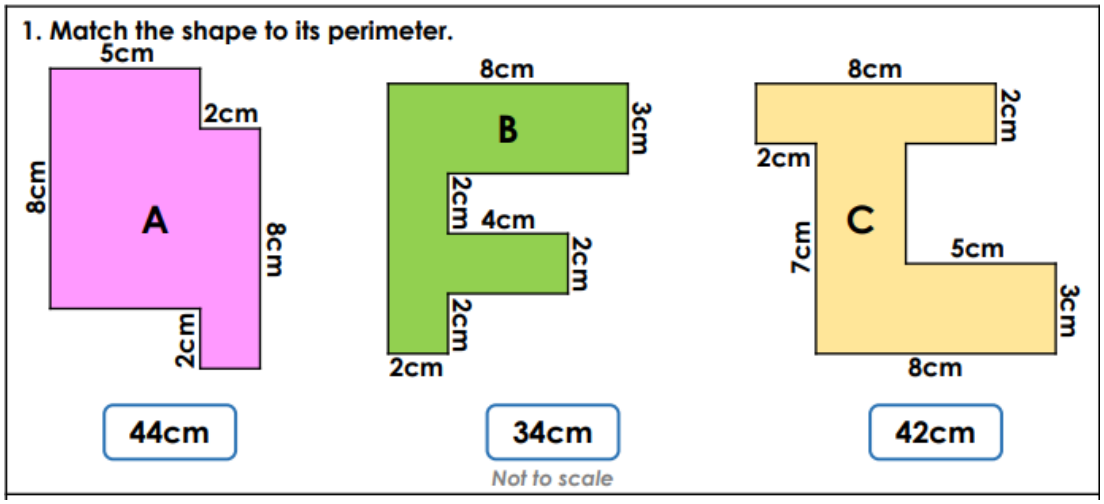
4. Whitney is measuring the perimeter of a square.
She says she only needs to measure one side of the square.

Do you agree?
Explain your answer.

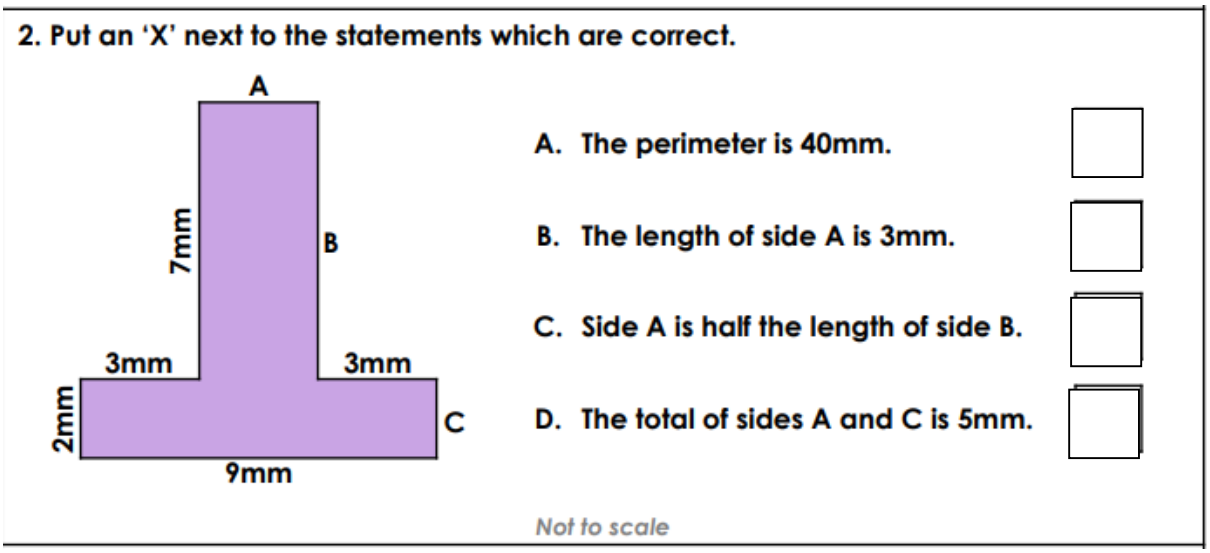
Answer

Year 4 Maths – Summer 2, Week 1
Finding the Perimeter of Rectilinear Shapes

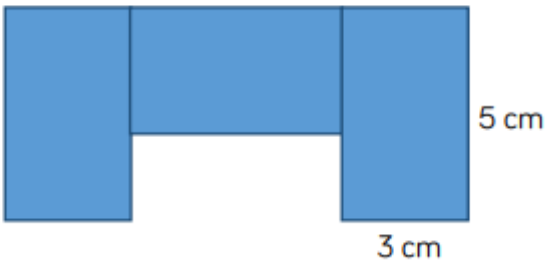
Day 2



Drag and position the lines to match the shape to its perimeter.



3. The shape is made from 3 identical rectangles. Calculate the perimeter of the shape.



Hint – if working on a computer, sketch this out on a piece of paper to find the answer!

Answer

Year 4 Maths – Summer 2, Week 1
Finding the Perimeter of Rectilinear Shapes

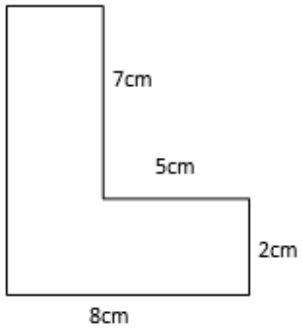
Day 3

Here is a whole variety of questions on perimeter.
Make sure you read them carefully!

A) **Perimeter of compound shapes**

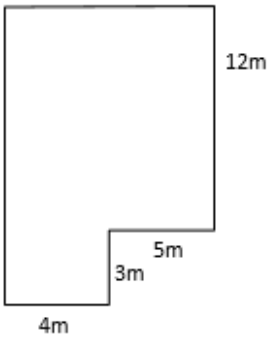
Find the perimeter of each of these shapes. Write in missing lengths that you calculate.

1.



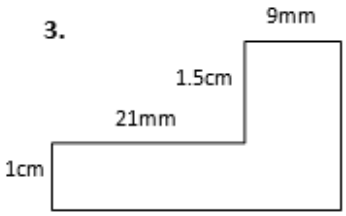
Answer

2.



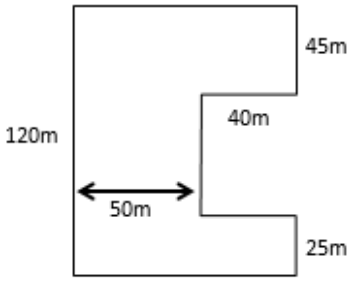
Answer

3.



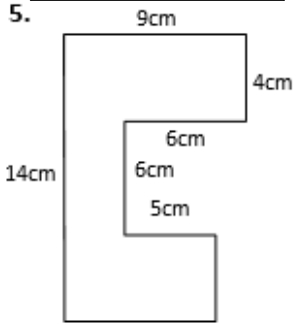
Answer

4.



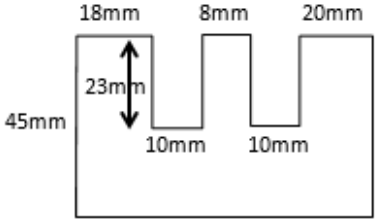
Answer

5.



Answer

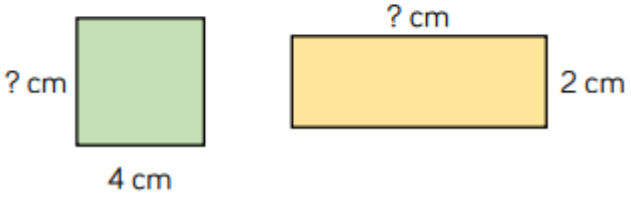
6.



Answer

B)

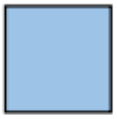
Each of the shapes have a perimeter of 16 cm.
Calculate the lengths of the missing sides.



Answers

C)

Here is a square. Each of the sides is a whole number of metres.



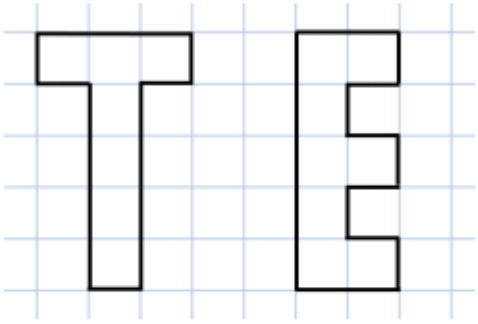
Which of these lengths could be the perimeter of the shape?
24 m, 34 m, 44 m, 54 m, 64 m, 74 m

Why could the other values not be the perimeter?

Answers

D)

Which of these shapes has the longest perimeter?



Explore other letters which could be drawn as rectilinear shapes.

Put them in order of shortest to longest perimeter.

Can you make a word?

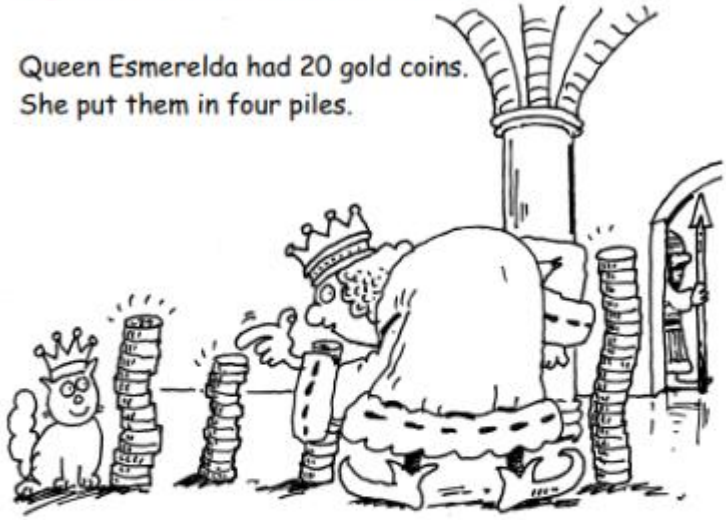
Answers

Year 4 Maths – Summer 2, Week 1
Finding the Perimeter of Rectilinear Shapes

Extra Challenge!

Queen Esmerelda's coins

Queen Esmerelda had 20 gold coins.
She put them in four piles.



- The first pile had four more coins than the second.
- The second pile had one less coin than the third.
- The fourth pile had twice as many coins as the second.

How many gold coins did Esmerelda put in each pile?

Year 4 Maths – Summer 2, Week 1
Finding the Perimeter of Rectilinear Shapes

Answers

Day 1

1 a) 18 b) 16 c) 12 d) 28 e) 36

2 a) 40 b) 52 c) 22.4 d) 37.2 e) 6.6

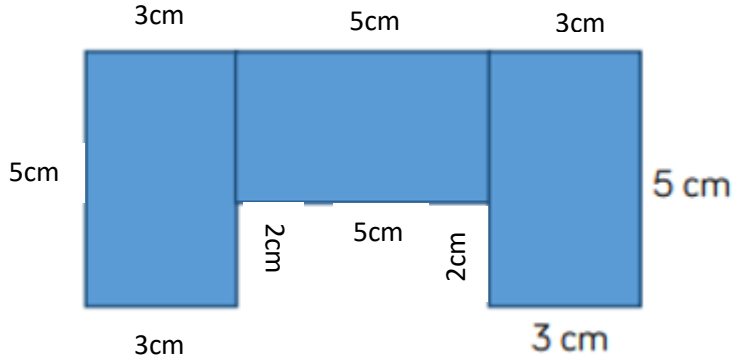
3. Amir has only included two of the sides. To find the perimeter he needs all 4 sides. It should be 14 cm.

4. Whitney is correct because all four sides of a square are equal in length so if she measures one side she can multiply it by 4

Day 2

1. **A = 34cm, B = 42cm, C = 44cm**
2. **Statements B and D are correct.**

3.



Answer = 36cm

Day 3

A)

Answers
1. 34cm
2. 48m
3. 11cm or 110mm
4. 500m
5. 56cm
6. 314mm

B) 4 cm

6 cm

C) 24 cm

Sides = 6 cm

44 cm

Sides = 11 cm

64 cm

Sides = 16 cm

They are not divisible by 4

D) E has a greater perimeter, it is 18 compared to 16 for T.
Open ended.
Letters which could be drawn include:
B C D F I J L O P
Letters with diagonal lines would be omitted.
If heights of letters are kept the same, I or L could be the shortest.