**Section A**: Answer all questions. Circle your choice from the given options for each question.

1. Richard has £1∙48. James has half as much as Richard. How much do they have altogether?

A. £2.48

B £0.74

C. £2.22

1. At the gym there are 2 boys for every 3 girls. There are 15 girls at the club.

How many boys are there?

A. 12

B. 10

C. 20

1. Find the missing number to make these fractions equivalent

A. 8

B. 48

C. 54

1. John uses a piece of string to measure the perimeter of shapes.

It fits exactly around a rectangle 10 cm by 8 cm.

He then fits it exactly around a square.

How long is one side of the square?

A. 18

B. 9

C. 6

1. Ravi bought a pack of 30 biscuits. He ate a fifth of them on Thursday.

He ate a third of the remaining biscuits on Friday.

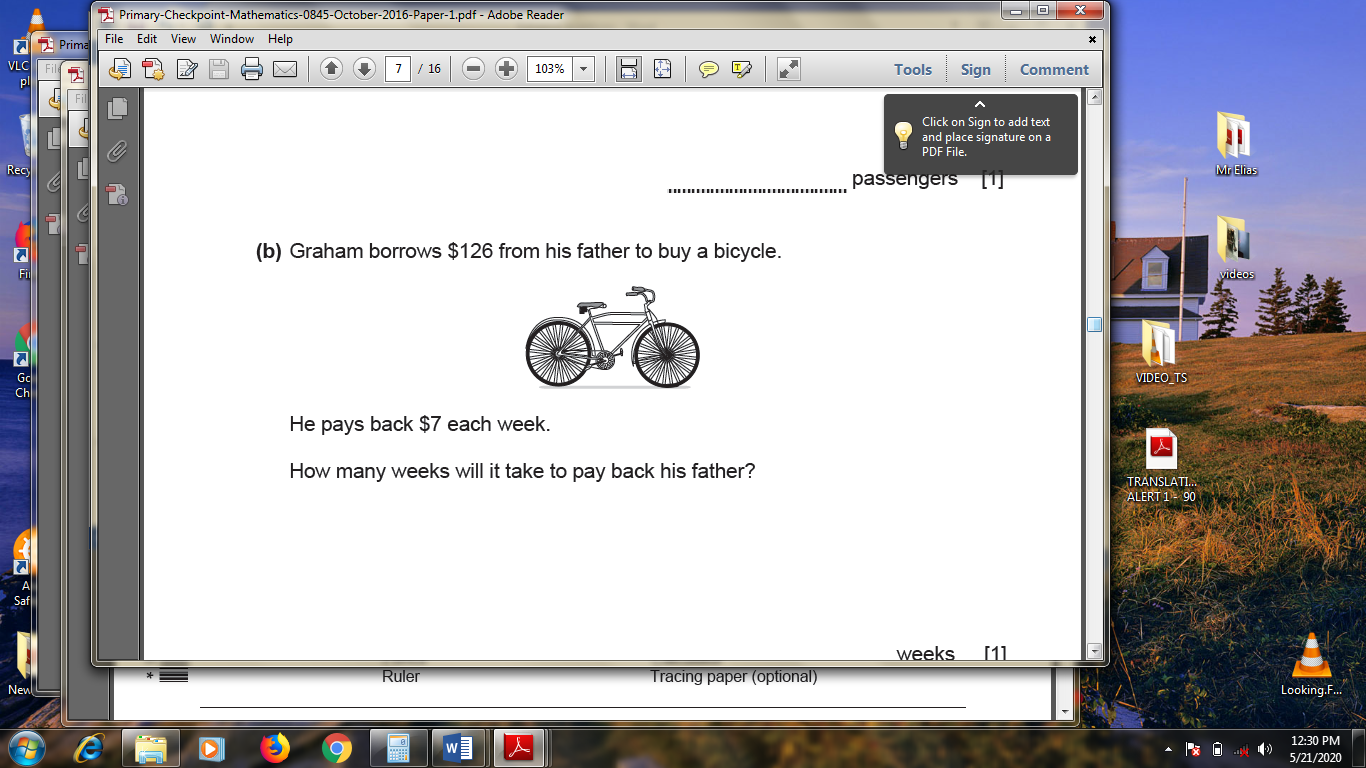
How many biscuits did he have left?

A. 16

B. 8

C. 24

1. Graham borrows $126 from his father to buy a bicycle.



He pays back $7 each week.

How many weeks will it take to pay back his father?

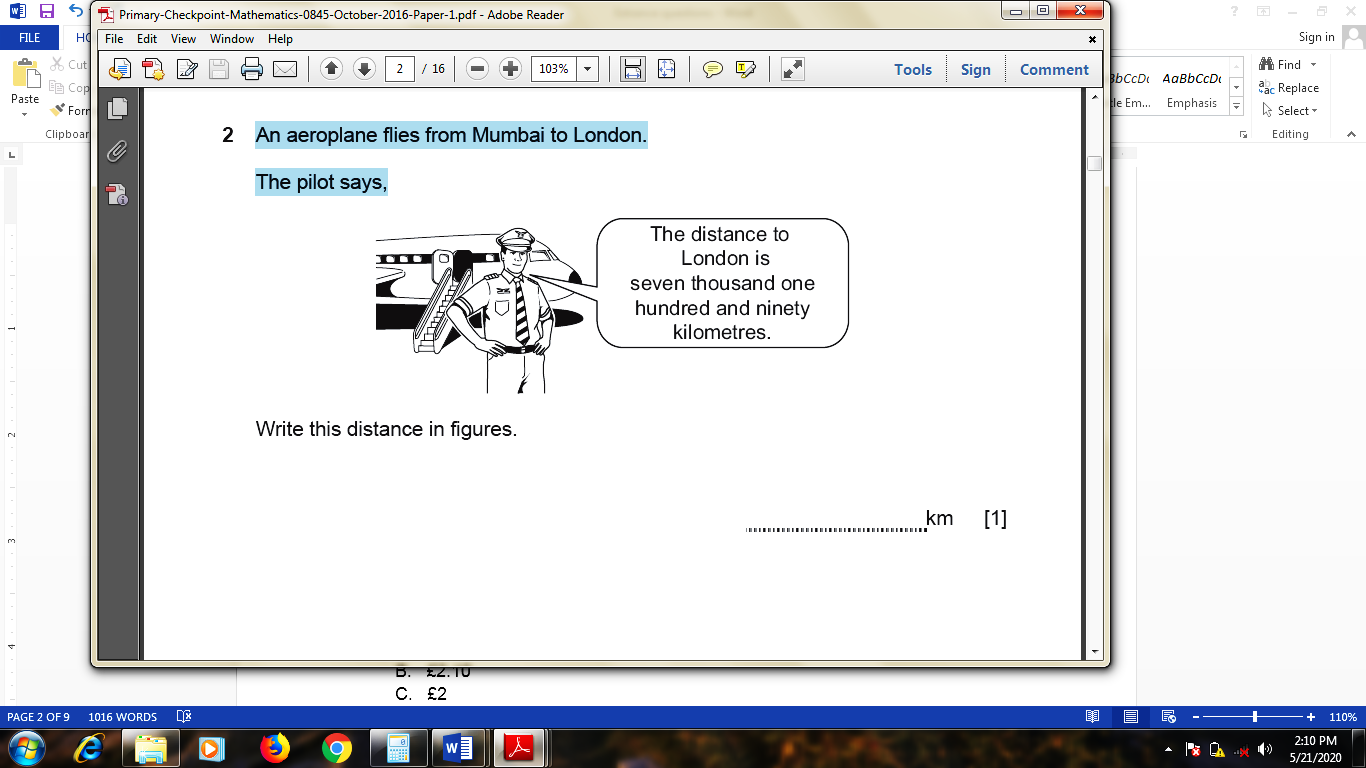
A. 14 weeks

B. 28 weeks

C. 18 weeks

1. An aeroplane flies from Mumbai to London.

The pilot says,



Write this distance in figures.

A. 7170 km.

B. 7199 km

C. 7190 km

1. A large chocolate bar costs 50 pence.

How much do 4 bars of chocolate cost? [Hint: 100 pence = £1]

A. £1.50

B. £2.10

C. £2.00

1. James is 30cm shorter than his brother Mark. James is 120cm tall.

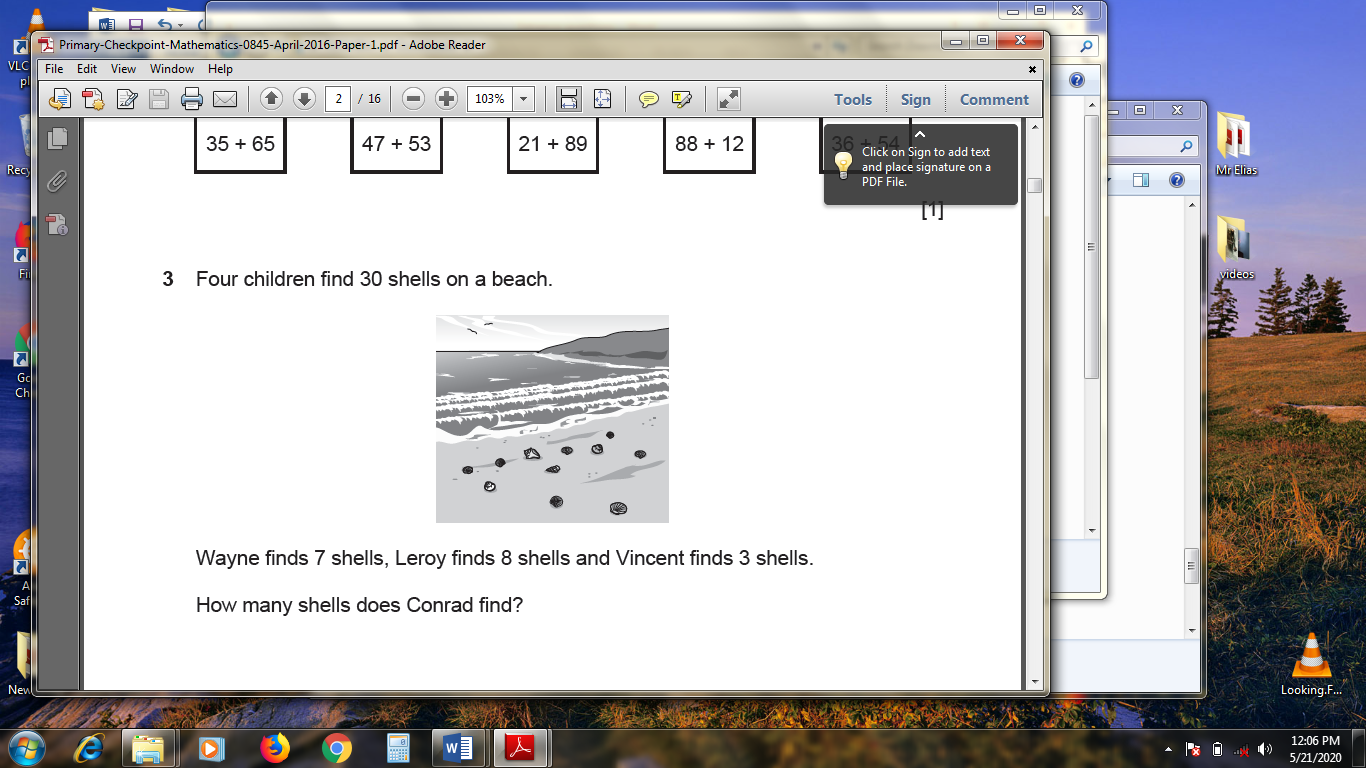
How tall is Mark?

A. 1.10 m

B. 1.50 m

C. 0.9 m

1. Four children find 30 shells on a beach.



Wayne finds 7 shells, Leroy finds 8 shells and Vincent finds 3 shells.

How many shells does Conrad find?

A. 18

B. 10

C. 12

1. 45 children are at a club.

The leader forms teams of 6 children.

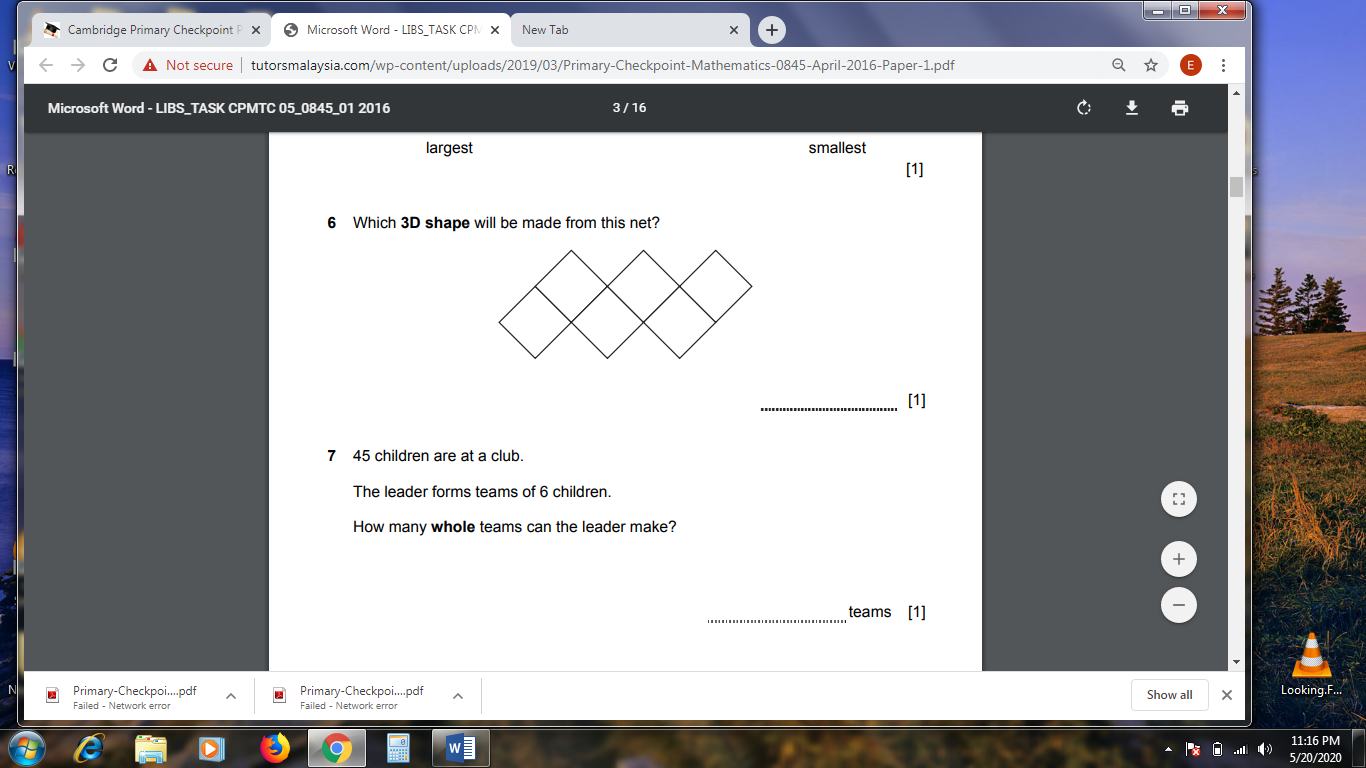
How many whole teams can the leader make?

A. 7

B. 8

C. 6

1. Which 3D shape will be made from this net?



A. Cuboid

B. Cube

C. Pyramid

1. Mrs. Yale bought five books at $40 each and sold them for $150. What is the loss?

A. $50

B. $30

C. $90

1. 4½ days to hours gives

A. 126 hours

B. 108 hours

C. 96 hours

1. In year 6, there are 30 girls and 45 boys. Find the ratio of girls to boys.

A. 1 **:** 3

B. 2 **:** 3

C. 3 **:** 2

1. The place value of 5 in 504.13 is

A. 5 hundreds

B. 5 hundredths

C. 5 tens

1. Square root of is

A. Impossible

B.

C.

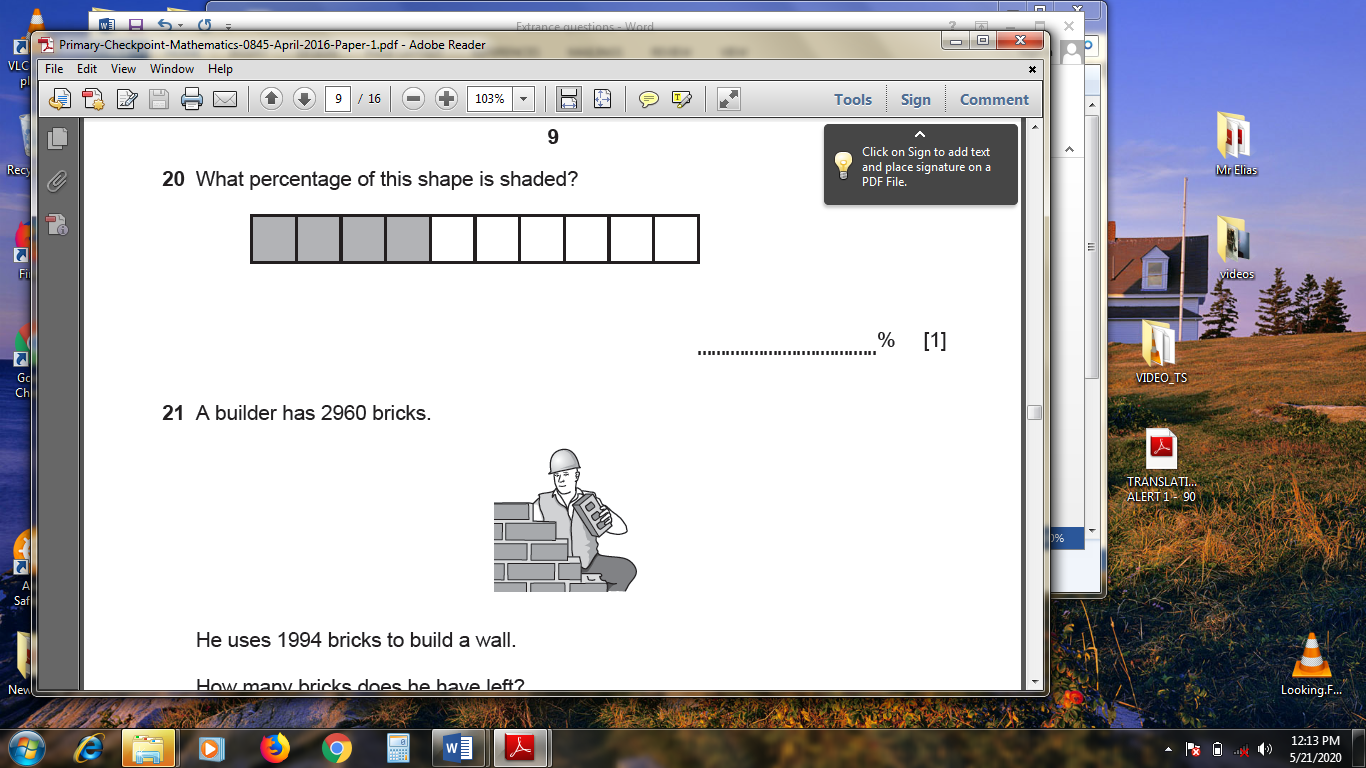
1. Noah was born in 1994. What birthday did he have in 2003?

A. 10th birthday

B. 9th birthday

C. 11th birthday

1. A builder has 2960 bricks.



He uses 1994 bricks to build a wall. How many bricks does he have left?

A. 966

B. 996

C. 696

1. Work out 356 ÷ 100

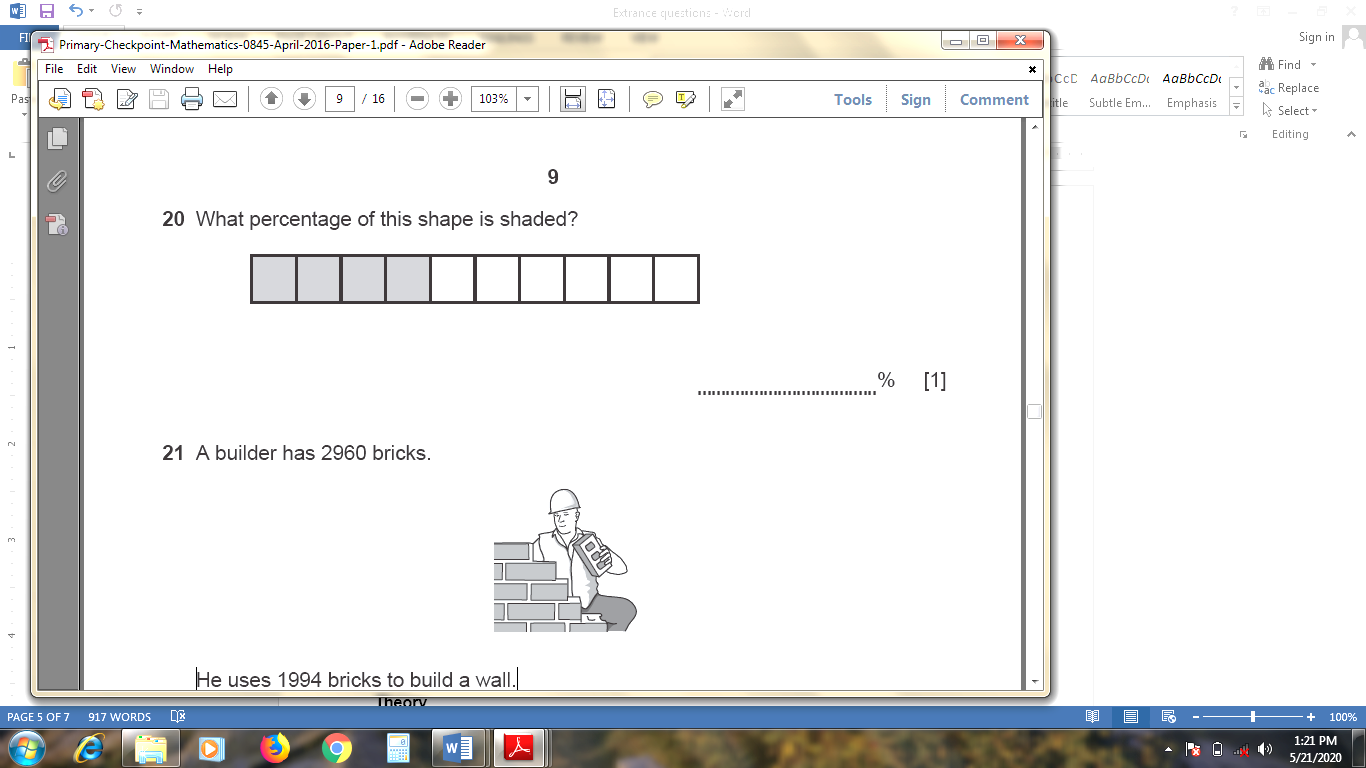
Give your answer as a decimal.

A. 35.6

B. 0.356

C. 3.56

1. What percentage of this shape is shaded?

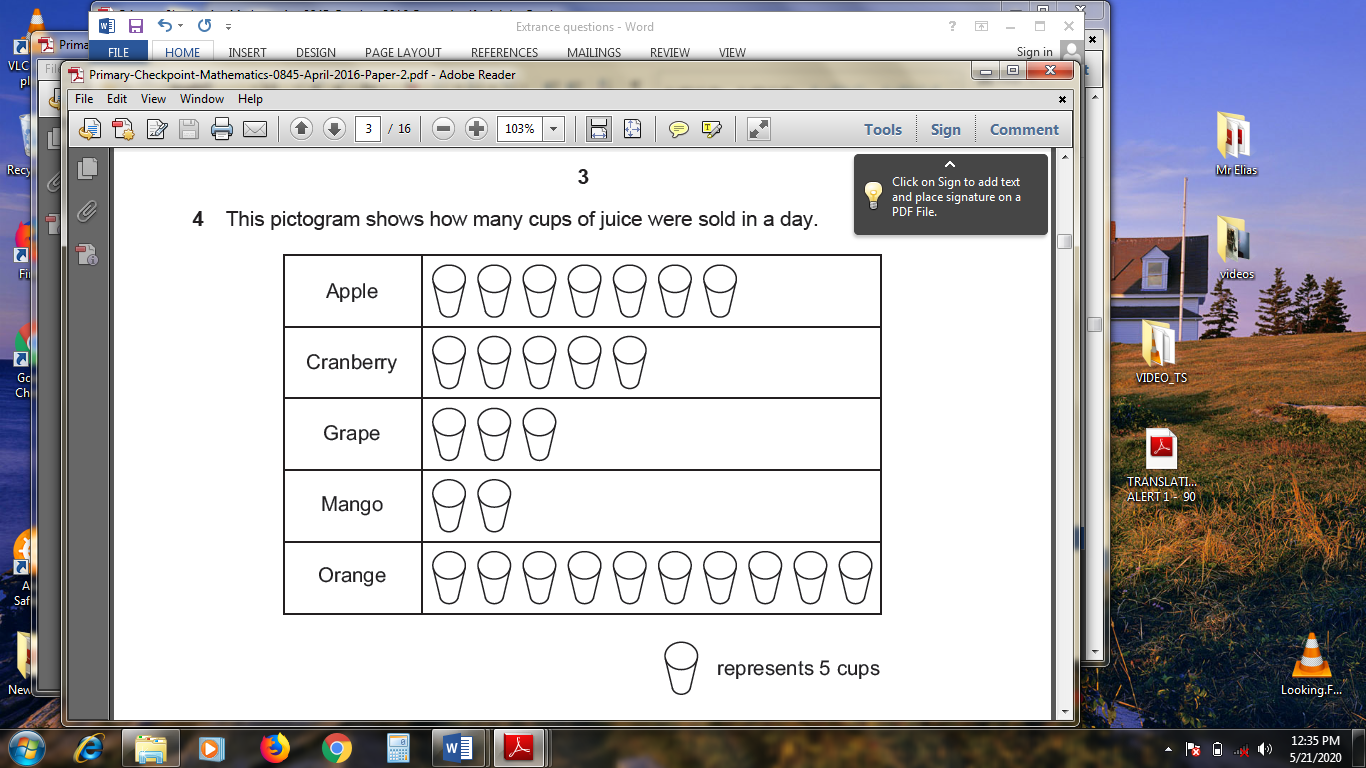


A. 40%

B. 14%

C. 24%

This pictogram shows how many cups of juice were sold in a day.



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*Use the information to answer questions* **22** *and* **23**

1. How many cups of juice were sold?

A. 125 cups

B. 135 cups

C. 145 cups

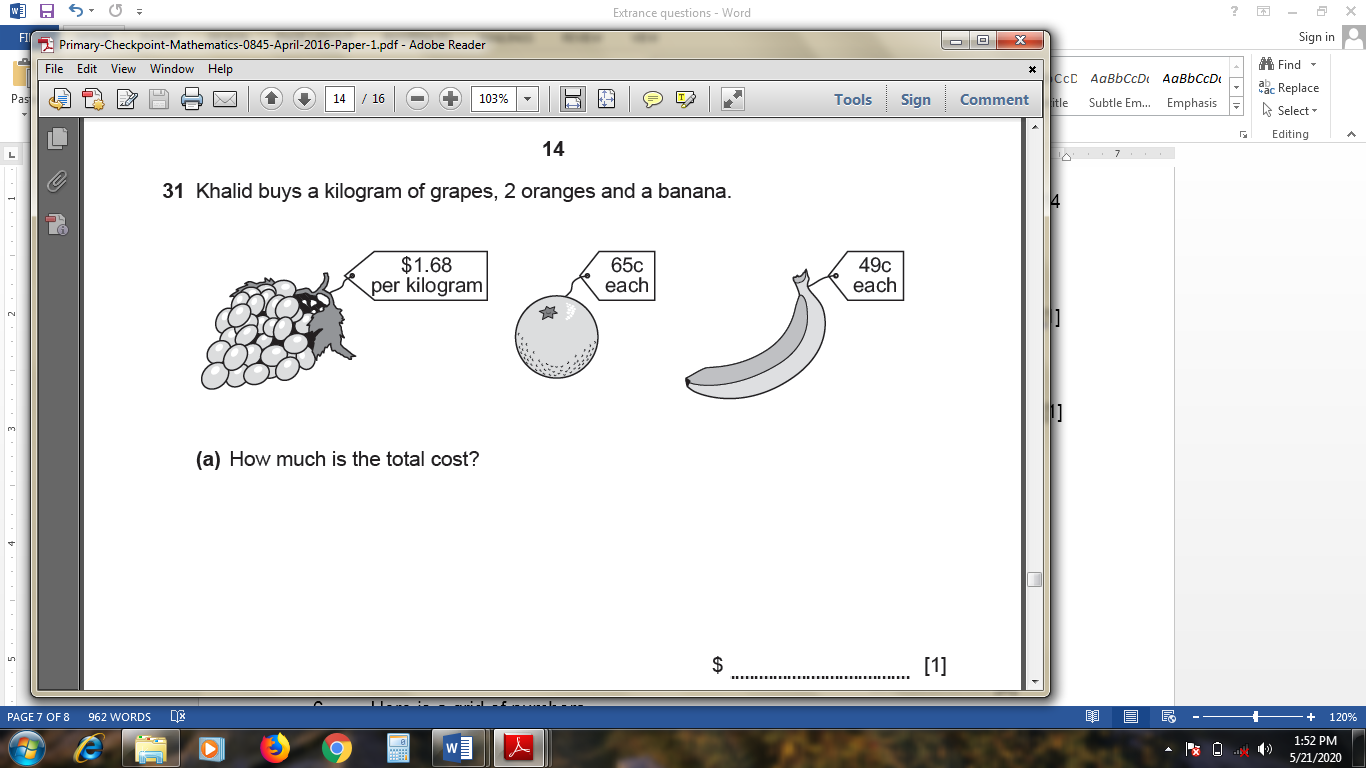
1. How many more cups of orange were sold than mango?

A. 35 cups

B. 30 cups

C. 40 cups

1. Khalid buys a kilogram of grapes, 2 oranges and a banana. How much does she spend?



$1 = 100c

A. $2.82

B. $115.68

C. $3.47

1. Write these fractions in order starting with the **largest**.

A.

B.

C.

1. Here is a sequence of numbers.

The sequence continues in the same way.

three thousand one hundred

thirteen thousand two hundred

twenty three thousand three hundred

Write **in figures** the next number in the sequence.

A. 33 300

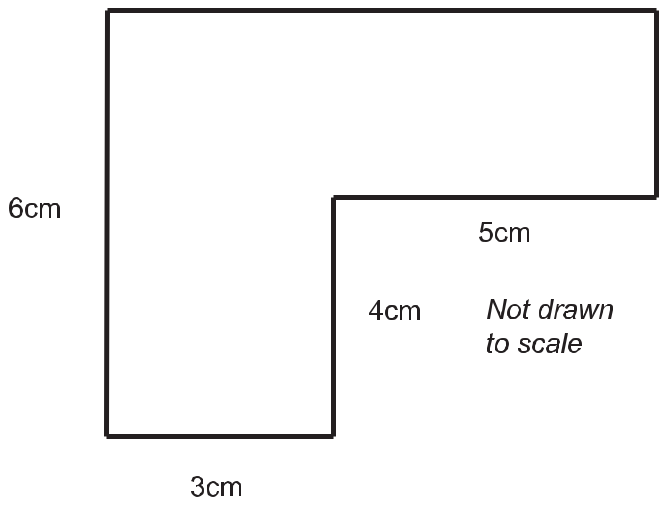
B. 34 300

C. 33 400

**Section B: Theory (20 marks)**

**Instruction:** Answer **all** questions and **show your working** in the space provided.

1. This diagram represents an L-shaped room.



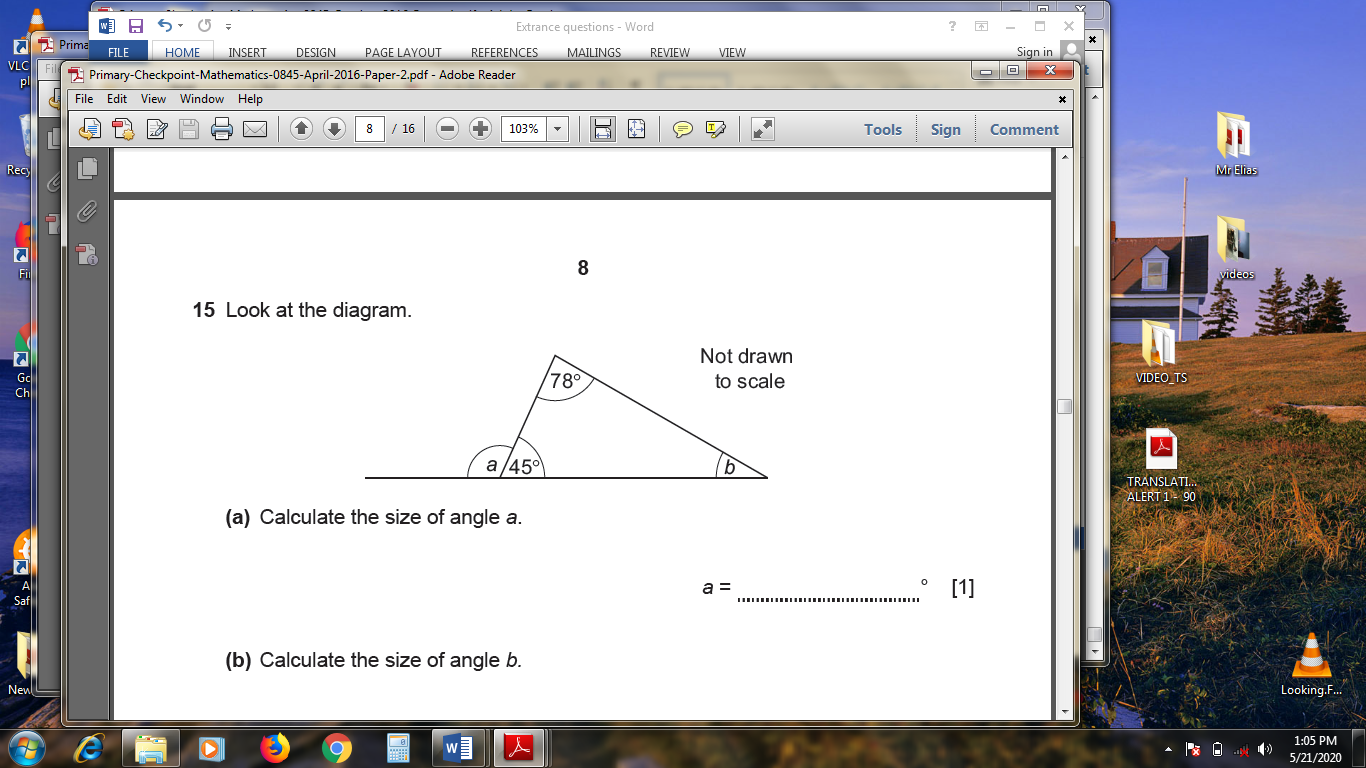
a) Calculate the perimeter of the room

…………………………cm [3]

b) Calculate the area of the room

………………………cm2  [4]

1. Look at the diagram.



(a) Calculate the size of angle *a*.

*a* = ………….… [2]

(b) Calculate the size of angle *b*.

*b* = ………..,…. [2]

1. Katie measures the mass of 15 different cherries.

Here are her results in grams.

10 12 9 11 9 6 15 12 13

11 11 10 12 11 14

Use her results to find:

(a) the range

…………………. grams [1]

(b) the mode

..…..……………grams [1]

1. Here is a grid of numbers

|  |  |  |
| --- | --- | --- |
| 6 | 8 | 17 |
| 21 | 22 | 25 |
| 28 | 40 | 41 |
| 49 | 54 | 72 |

From this grid write down: [Note: you may use a number more than once]

(a) Two square numbers

\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ [2]

(b) Two multiples of 8:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ [2]

(c) Two factors of 42:

\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_ [2]

(d) Two prime numbers:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ [2]