

ELITE MATHS
SIMPLIFY
ASSESSMENTS

YEAR 2020 v1

7 NUMERACY

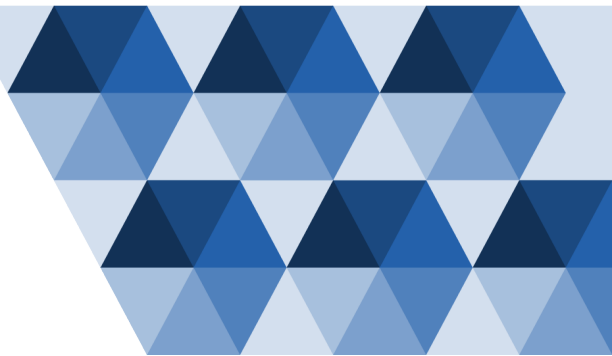
CALCULATOR ALLOWED 

Use 2B or HB pencil **ONLY**



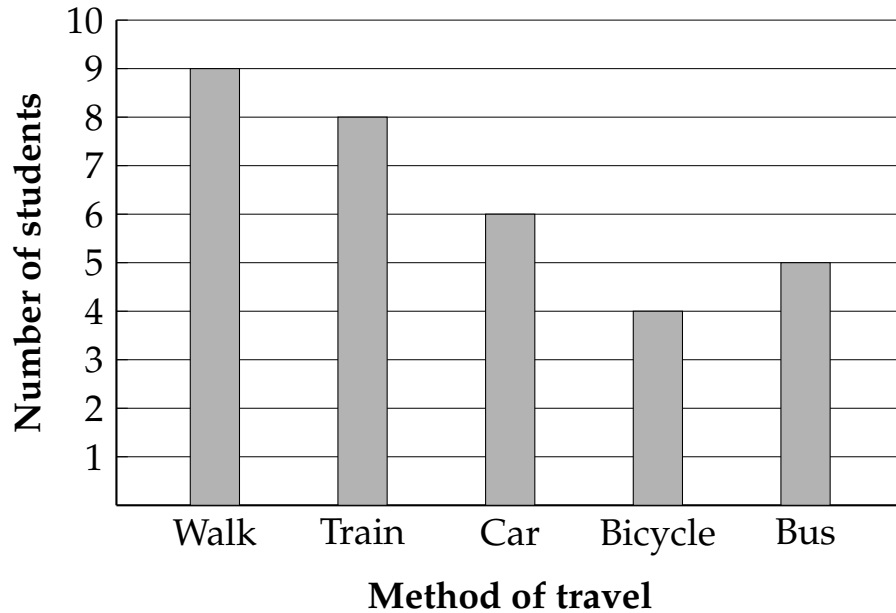
40_{min}

Time available for students to complete test: 40 minutes





- 7 The graph shows data about how some Year 7 students travel to school.



How many students travel to school by train or by bus?

8

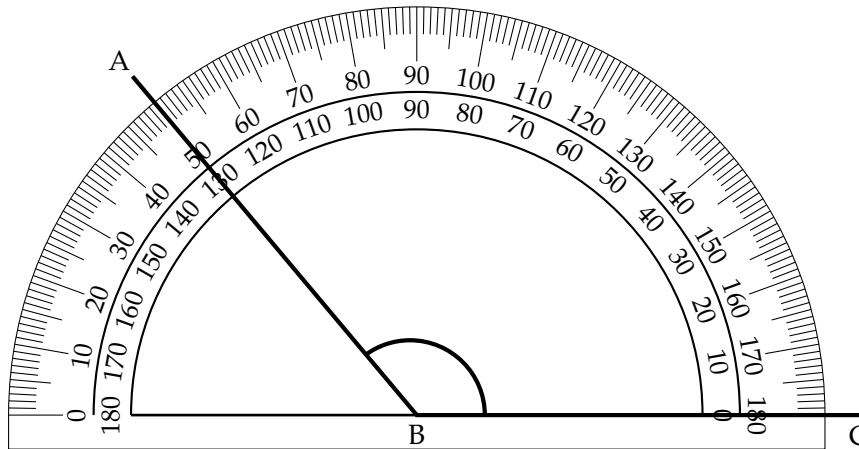
Cost of making cupcakes					
<i>Number of cupcakes</i>	5	7	8	10	20
<i>Total cost (\$)</i>	30	36	39	45	75

What is the rule connecting the total cost and the number of cupcakes?

- $Total\ cost = 3 \times Number\ of\ cupcakes$
- $Total\ cost = 15 + Number\ of\ cupcakes$
- $Total\ cost = 3 \times (15 + Number\ of\ cupcakes)$
- $Total\ cost = 15 + 3 \times Number\ of\ cupcakes$



16



What is the size of angle ABC?

50°

90°

130°

190°

17

Eryn and Ingle are siblings.

Eryn is 5 years older than twice Ingle's age.

If Ingle's age is A , which expression shows Eryn's age?

$2A$

$2A - 5$

$2A + 5$

$2(A + 5)$

18

Here are the times that Josh spends on his phone daily:

35 min, 30 min, 45 min, 70 min, 90 min, 20 min, 25 min

What is the mean daily time that Josh spends on his phone?

35 min

40 min

45 min

50 min



25

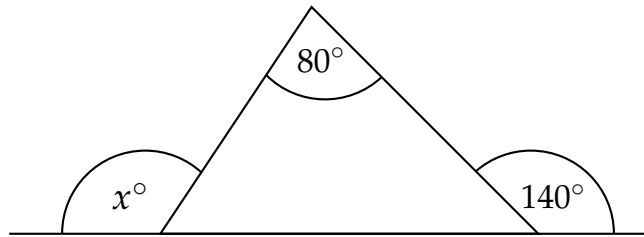


Diagram not to scale

What is the value of x in the diagram?

60

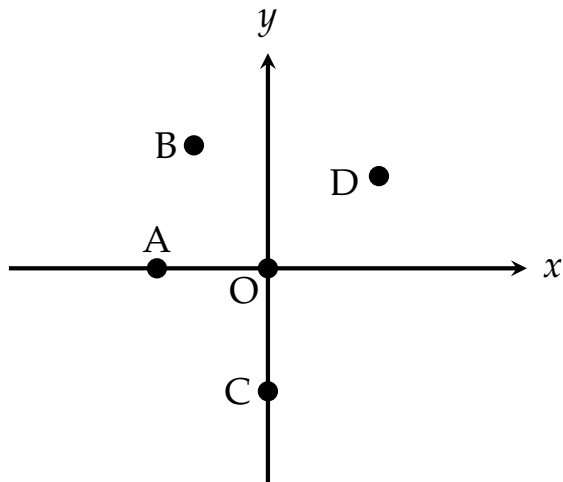
90

120

180

26

A Cartesian plane is shown.



Which point is located where $x < 0$ and $y > 0$?

A

B

C

D



- 1 5:25
- 2 $\frac{1}{0.03}$
- 3 $32\ 018 - 31\ 496 = 522$
- 4 -3
- 5 $2 \times 3 = 6\ \text{m}^2$
- 6 1, 2, 3, 9, 10
1 is not a prime number.
- 7 $8 + 5 = 13$ students
- 8 *Total cost = $15 + 3 \times \text{Number of cupcakes}$*
- 9 $4.7^2 = 22.09$. Therefore 22 is the closest whole number.
- 10 North-east to Narrandera, then turn left
- 11 (9, 0)
- 12 $31 - 7 = 24^\circ\text{C}$
- 13 $\frac{1}{2} \times 4 \times 5 = 10$ square units
- 14 2.3 km
- 15 $\frac{5}{3.5} = \frac{10}{7} = 1\frac{3}{7}$
- 16 130°
- 17 $2A+5$
- 18 $\frac{35 + 30 + 45 + 70 + 90 + 20 + 25}{7} = 45$ min