



Mathletics

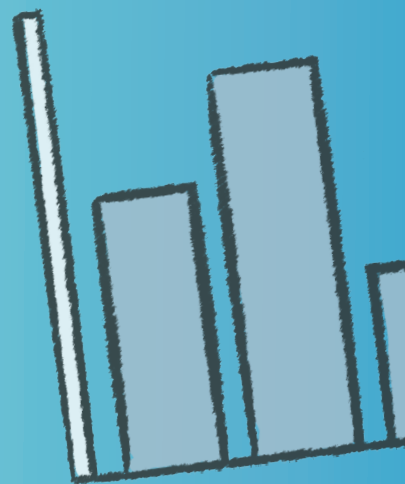
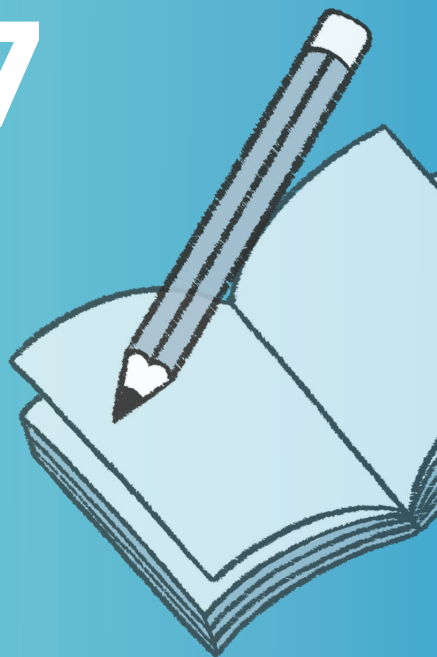
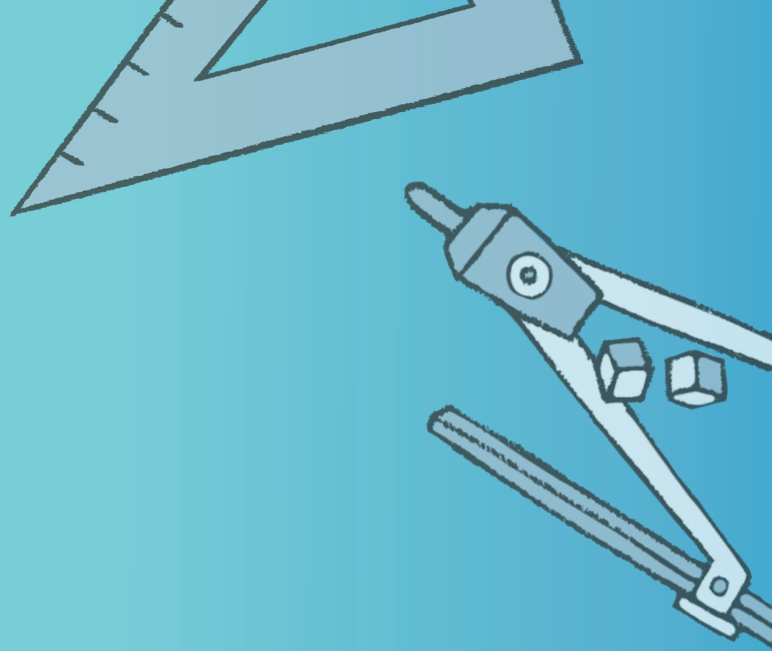
NAPLAN Year 7 Numeracy Test 3

(Calculator Allowed)

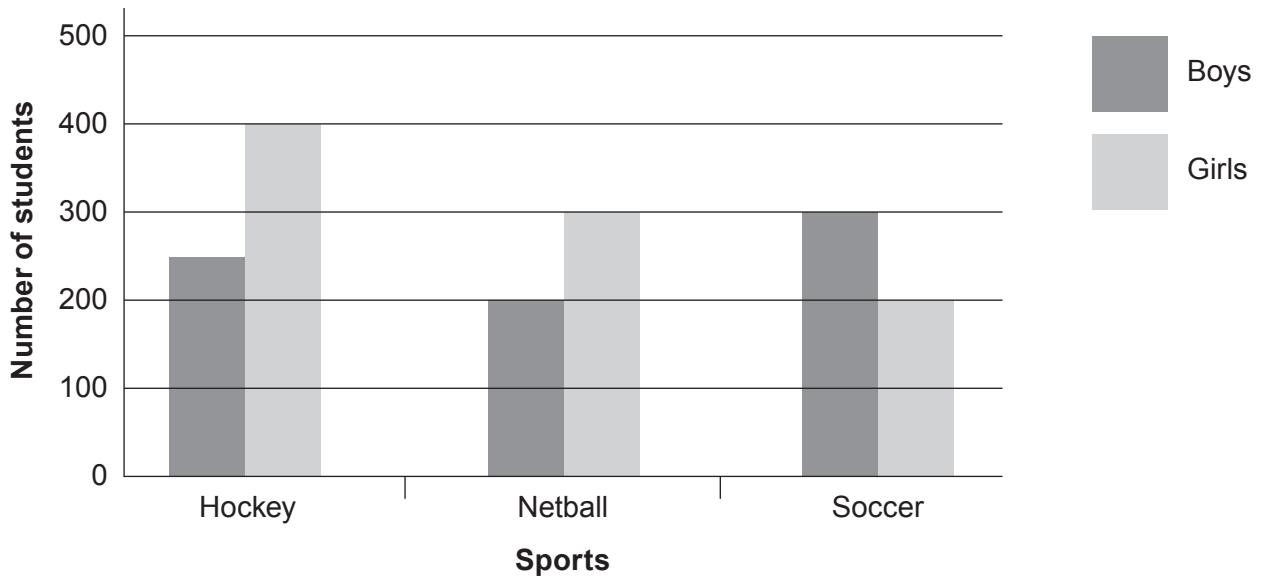
Answers



A 3P Learning product



1 This graph shows the different sports girls and boys play in one school.



Use the information in the graph to complete the table:

	Hockey	Netball	Soccer
Boys	250	200	300
Girls	400	300	200

Write one number in each box.

2 375% is equal to:

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

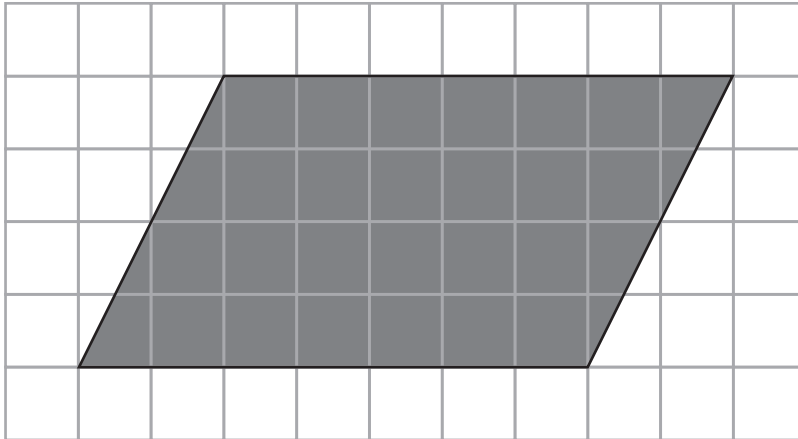
Shade one bubble.

3 Tan thought of a number. She multiplied it by 8 and added 6. She ended up with 78. What was the number that she started with?

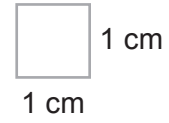
- 8 9 10 12

Shade one bubble.

4 What is the area of the parallelogram?



Scale



- 11 cm²
- 24 cm²
- 28 cm²
- 32 cm²

Shade one bubble.

5 For the values in this table, what is the rule that describes y in terms of x ?

x	0	1	2	3	10
y	3	5	7	9	23

- $y = 2x - 3$
- $y = 2x + 3$
- $y = 3 - 2x$
- $y = 2x$

Shade one bubble.

6 Which is the warmest temperature?

- -14°C
- -18°C
- -4°C
- -5°C

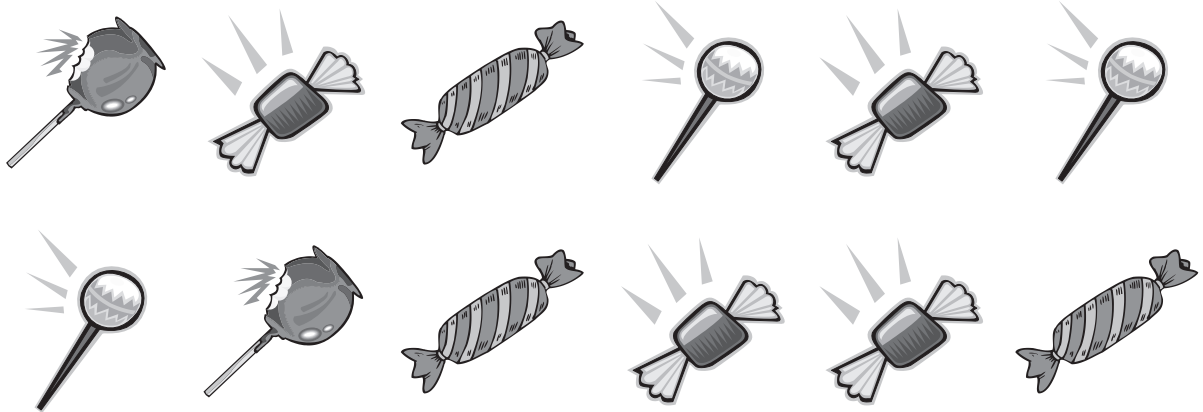
Shade one bubble.

7 $22.45 \div 2 =$

1	1	.	2	2	5
---	---	---	---	---	---

Write one digit in each box.

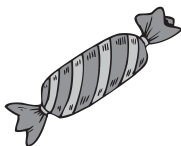
8 Jake bought some lollies and put them in a container.



He offered one to his brother Max.

What is the chance that Max would choose this lolly?

Shade one bubble.



$\frac{1}{3}$

$\frac{1}{4}$

$\frac{3}{4}$

$\frac{4}{12}$

9 $12 - (\square - 3) = 4$

What is the missing number?

8

9

10

11

Shade one bubble.

10 Which calculation below has the same answer as 36×4 ?

8×16

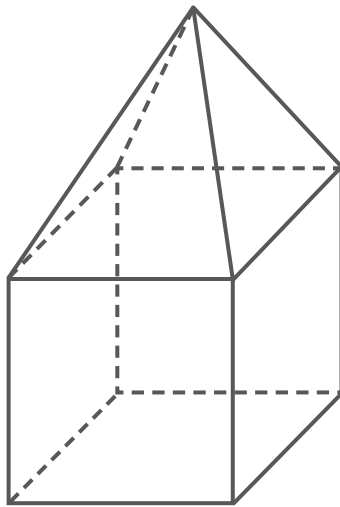
10×14

9×16

34×6

Shade one bubble.

11 Determine the number of faces (F), vertices (V) and edges (E) in this shape.



Shade one bubble.

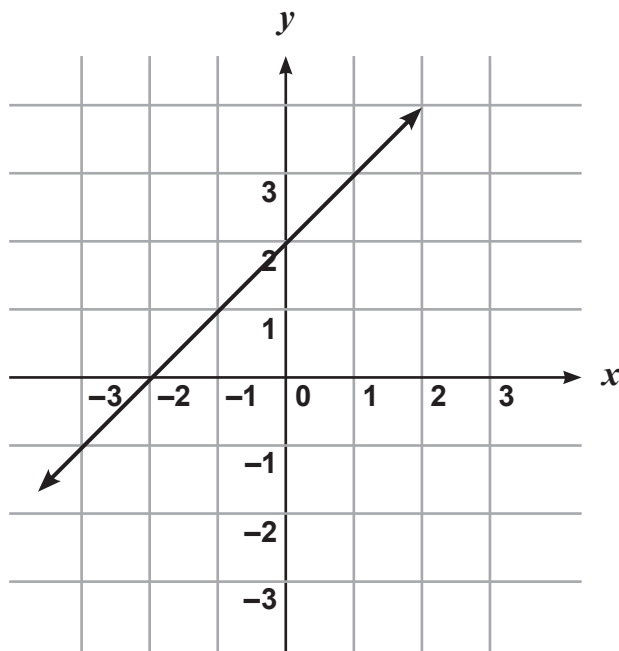
- F = 9, V = 9, E = 16
- F = 9, V = 10, E = 12
- F = 8, V = 8, E = 16
- F = 8, V = 9, E = 12

12 $5(x - 4) + 4 =$?

- $5x$
- $5x + 16$
- $5x - 16$
- $5x + 24$

Shade one bubble.

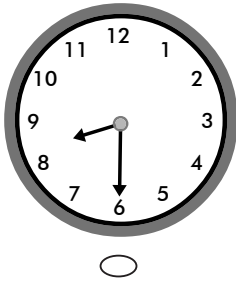
13 Which rule describes the graph?

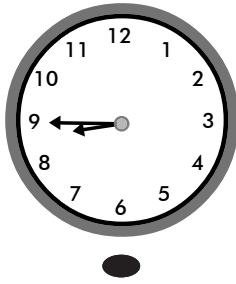


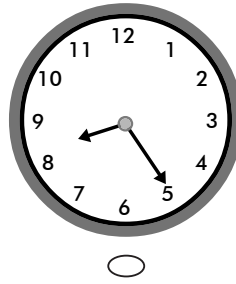
Shade one bubble.

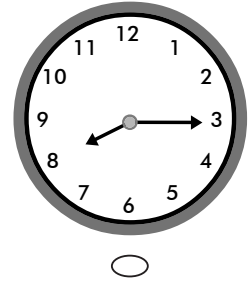
- $y = x + 2$
- $y = -x - 2$
- $y = -x + 2$
- $y = x - 2$

14 What will the time be 53 minutes after 7.52am?









Shade one bubble.

15 Carl chooses a number. He divides it by 2, subtracts 3, then divides by 8. He is left with the number 1. What number did Carl choose?

22

21

10

5

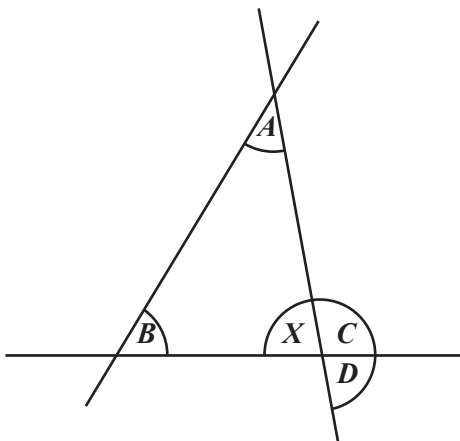
Shade one bubble.

16 Tina paid \$60 for a pair of shoes after they were discounted by 20%. What was the original price of the shoes?

\$

Write the answer in the box.

17 In this diagram, which angle is supplementary to angle X?



A

B

C

D

Shade one bubble.

- 18 Ellen bought 2 peaches for \$1.20 each, 3 punnets of strawberries for \$2.50 each and 3 bananas for 85c each.

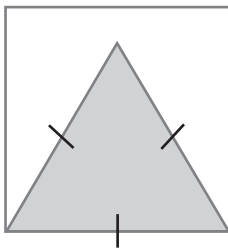
How much does this cost?

\$12.45

Write the answer in the box.



- 19 Here is an equilateral triangle inside a square.



The perimeter of the triangle is 54 centimetres.
What is the perimeter of the square?

- 18 cm 72 cm 162 cm 54 cm
-

Shade one bubble.



- 20 A cube has a volume of 512 cm^3 . What is the side length of the cube?

- 8 cm 9 cm 11 cm 13 cm
-

Shade one bubble.



- 21 The area of this triangle is:

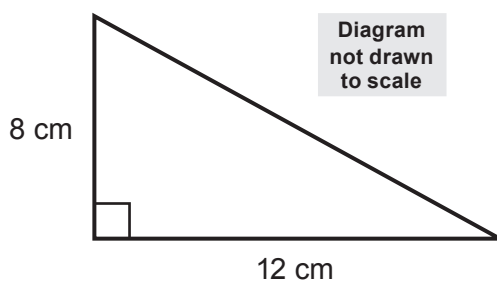



Diagram not drawn to scale

- 40 cm^2 44 cm^2 48 cm^2 96 cm^2
-

Shade one bubble.




22 There are 630 students at a school. The ratio of girls to boys is 3:4.
How many boys go to this school?

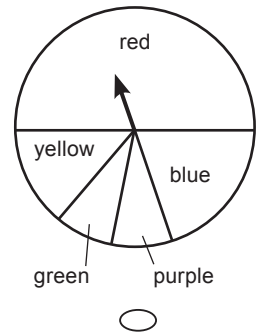
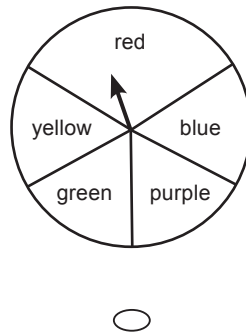
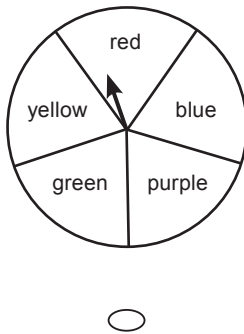
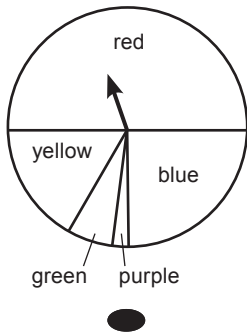
Write the answer in the box. 

23 Jamal's workbook is 5.6 centimetres thick.
The front and back cardboard covers are each 0.3 centimetres thick
and each page is 0.04 centimetres thick.
How many pages are in his workbook?

 pages

Write the answer in the box. 


24 Ellie has made a spinner with 5 different colours. When she uses her spinner:
It is half as likely to land on blue as it is on red.
It is three times as likely to land on red as it is on yellow
It is twice as likely to land on green as it is to land on purple
Which spinner is Ellie's?



Shade one bubble. 

25 If $5x^2 = 80$,

$x =$

Write the answer in the box. 

26 At 10 pm Wednesday in Canberra, it is 3 am Wednesday in Los Angeles.

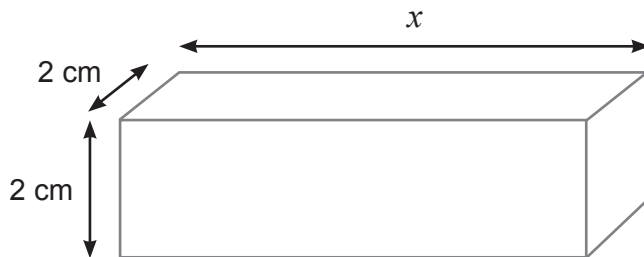
Sally catches an aeroplane from Canberra on Wednesday at 10 pm and arrives in Los Angeles 14 hours later. What day and time is it in Los Angeles when Sally arrives?

- Wednesday, 10 pm
- Wednesday, 5 pm
- Thursday, 12 noon
- Thursday, 2 pm

Shade one bubble.



27 The volume of this prism is 28 cm^3 . What is x ?

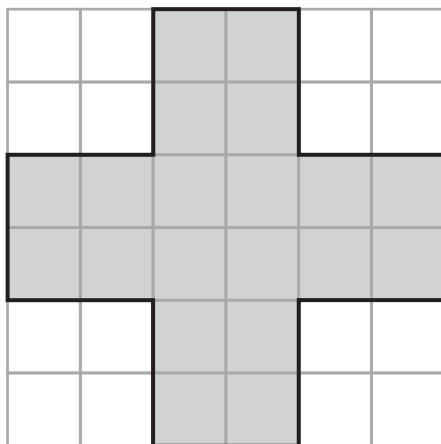


- 7 cm
- 9 cm
- 10 cm
- 14 cm

Shade one bubble.



28 The area of the shaded shape is 80 cm^2 . What is the perimeter of the shape?

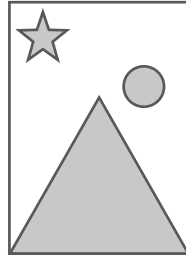


- 24 cm
- 40 cm
- 48 cm
- 80 cm

Shade one bubble.

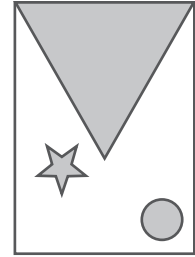
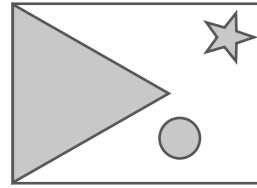
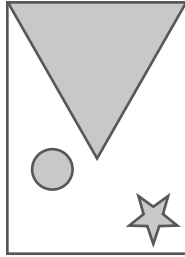
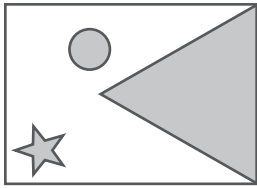


29 This tile has been turned three quarters clockwise and now looks like this:



Shade one bubble.

Which tile shows what it looked like before it was turned?



30 Liam spent \$6.00 on some fancy chocolates for his mum. How many grams did she get if they cost \$30 a kilogram?

grams

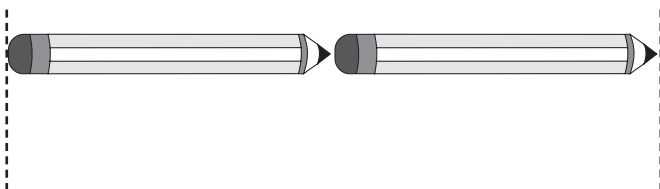
Write your answer in the box.

31 Jessica's water bill was \$360 last month, \$90 less than the month before. By what percentage did her bill decrease?

- 80%
- 75%
- 20%
- 25%

Shade one bubble.

32 Two pencils have the same length as five erasers.



Write your answer in the box.

How many erasers will have the same length as 70 pencils?

END OF TEST