



THE SCIENCE  
ACADEMY

# PRIMARY 4 MATH E-TRIAL

---

PRIMARY 4 MATH

THE SCIENCE ACADEMY



THE SCIENCE  
ACADEMY

# Numbers to 100 000 - 1

---

Jack is thinking of a whole number which is made up of different digits. The digit in the tens place is smaller than the digit in the ones place. All the digits are odd. When Jack rounds off the number to the nearest thousand, it becomes 80 000. What is the greatest possible number that Jack is thinking of?



THE SCIENCE  
ACADEMY

# Numbers to 100 000 - 2

---

I am a 5-digit whole number. My ones digit is the sum of my ten digit and ten thousands digit. My tens digit is the sum of my hundreds digit and ten thousands digit. My hundred digit is the sum of my thousands digit and ten thousands digit. My thousands digit is one more than my ten thousands digit. My ten thousands digit is the smallest odd number. What number am I?



THE SCIENCE  
ACADEMY

# Multiplication and Division - 1

---

A teacher divided 72 pupils into 8 equal groups. She gave each pupil the same number of balloons and additional 28 balloons to each group for decorations. If she gave out a total of 1304 balloons, how many balloons did each pupil receive?



# Multiplication and Division - 2

---

Tom and Daisy bought some sweets. Tom bought 196 sweets while Daisy bought 3 times as many sweets as Tom.

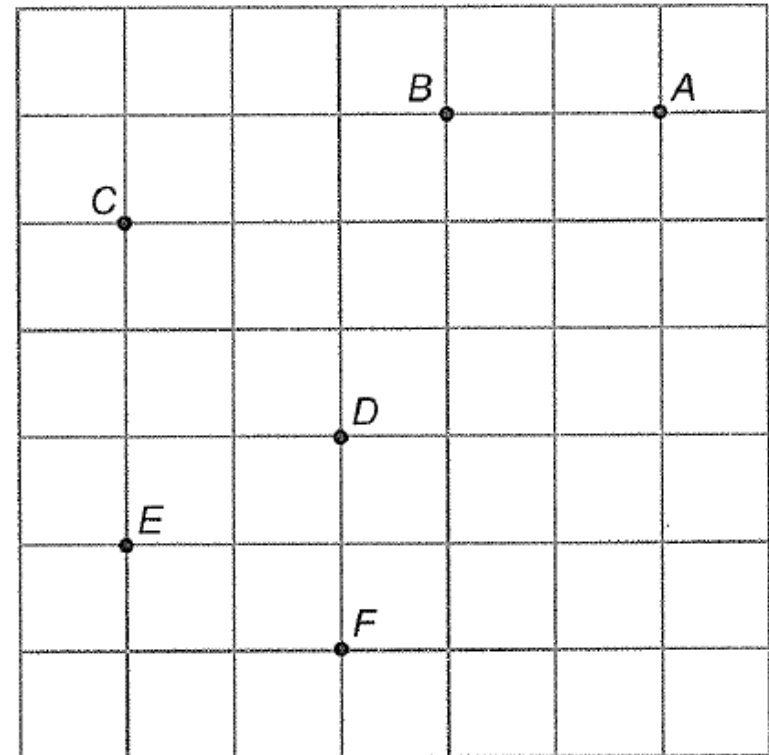
(a) How many sweets did Daisy buy?

(b) How many sweets must Daisy give to Tom so that Tom will have 90 fewer sweets than her?



# Angles - 1

Nancy stood at one of the points facing point C. After making a  $\frac{3}{4}$  turn anti-clockwise, she was facing point A. At which point was she standing?



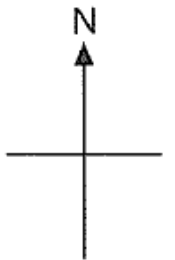
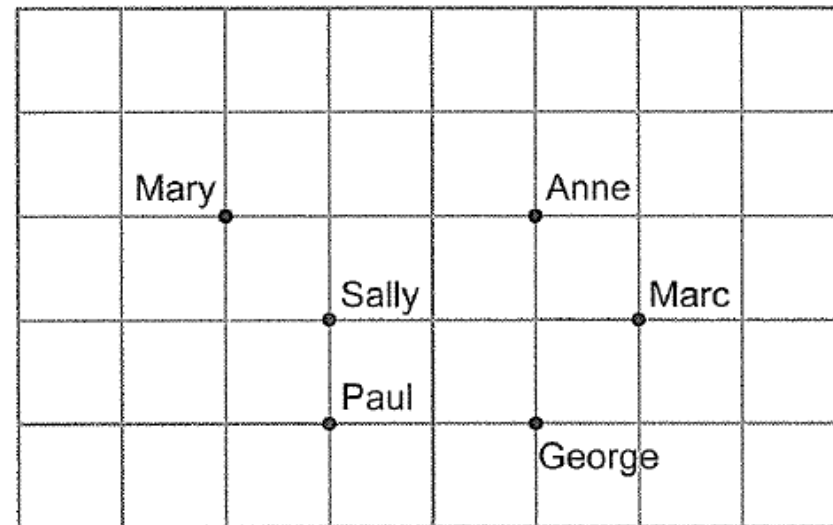


# Angles - 2

Study the figure to answer the questions.

(a) Marc is facing north. Who will he face if he turns  $135^\circ$  in an anti-clockwise direction?

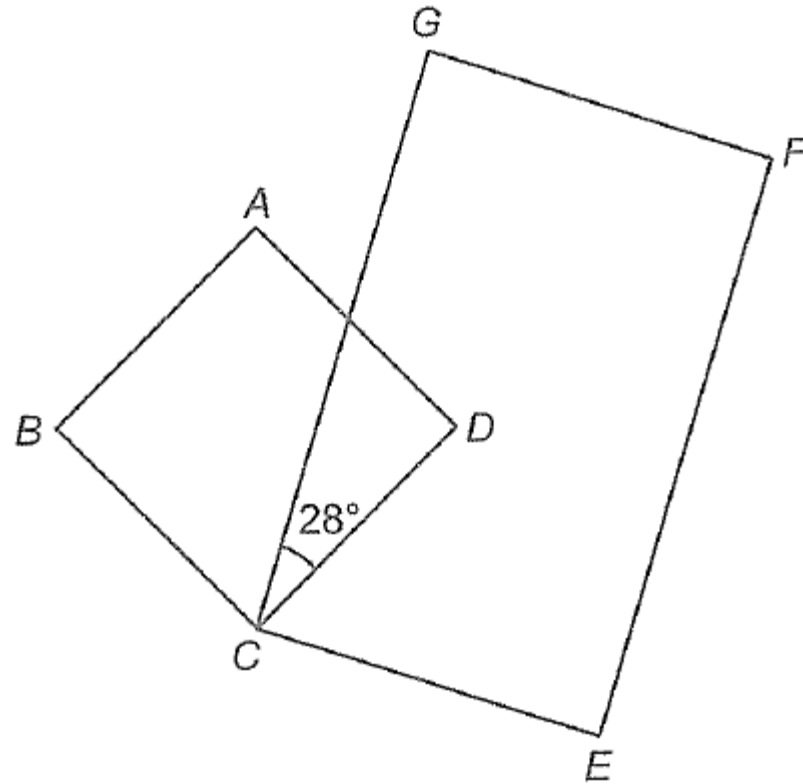
(b) Mary and Anne were facing the same direction at first. Anne made a  $\frac{1}{4}$  turn in an anti-clockwise direction and faced Paul after the turn. Mary made a  $225^\circ$  turn in clockwise direction. Who will she face after the turn?





# Squares and Rectangles - 1

The figure below is made up of a square ABCD and a rectangle CEFG. Find  $\angle BCE$ .

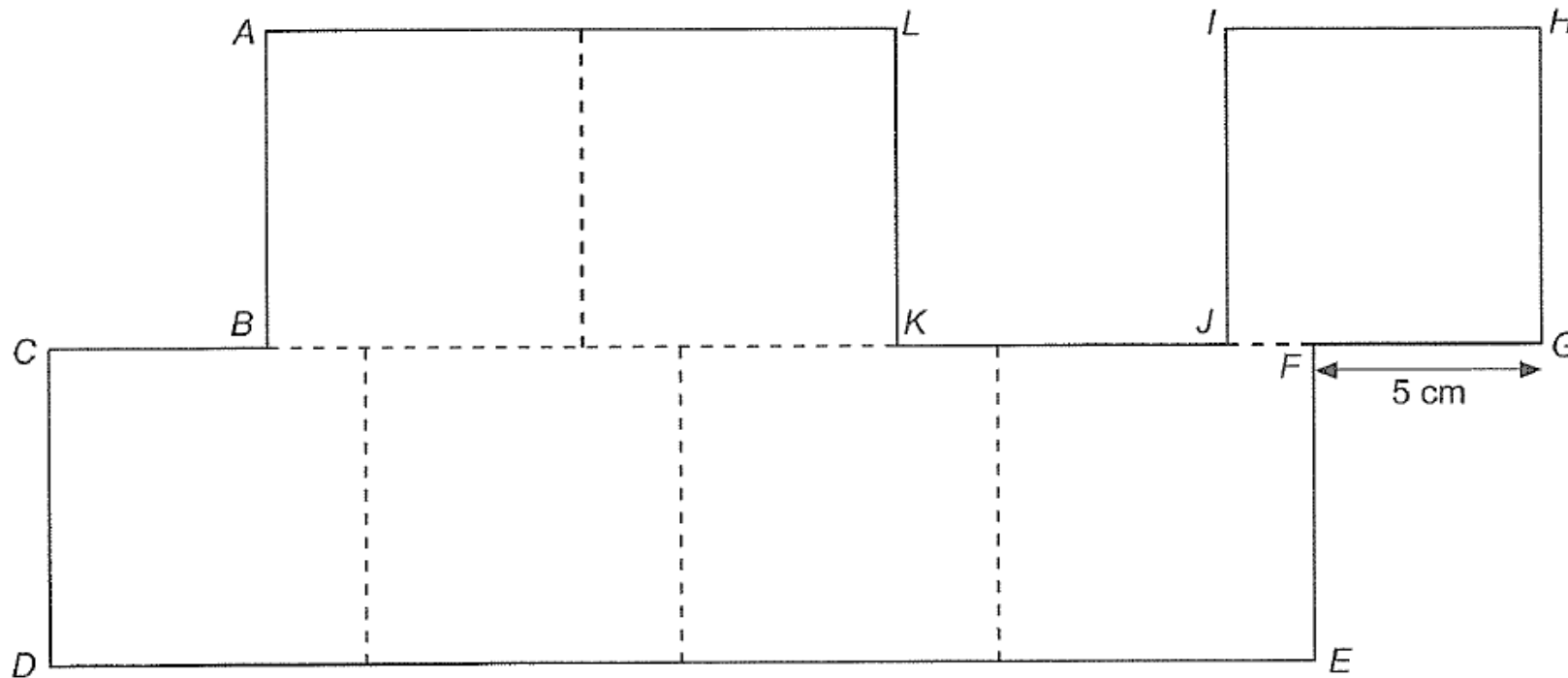






# Squares and Rectangles - 2

The figure below is made up of 7 identical squares of side 7 cm. Find the total length of BC and JK.





# Fractions - 1

---

There were some boys and girls watching a magic show. After  $\frac{2}{3}$  of the boys and  $\frac{3}{8}$  of the girls went home, there were the same number of boys and girls left. If there were 240 boys watching the magic show at first,

- (a) how many boys were left?
- (b) how many girls were there at first?



# Fractions - 2

---

Charlie and Tim had 360 marbles altogether. Charlie lost  $\frac{1}{4}$  of his marbles to Tim in a game of marbles. Tim then lost  $\frac{1}{2}$  of his marbles to Charlie in the next game. In the last game, Charlie lost 12 marbles to Tim. Charlie now has twice as many marbles as Tim. How many marbles did each boy have at first?



THE SCIENCE  
ACADEMY

# Decimals - 1

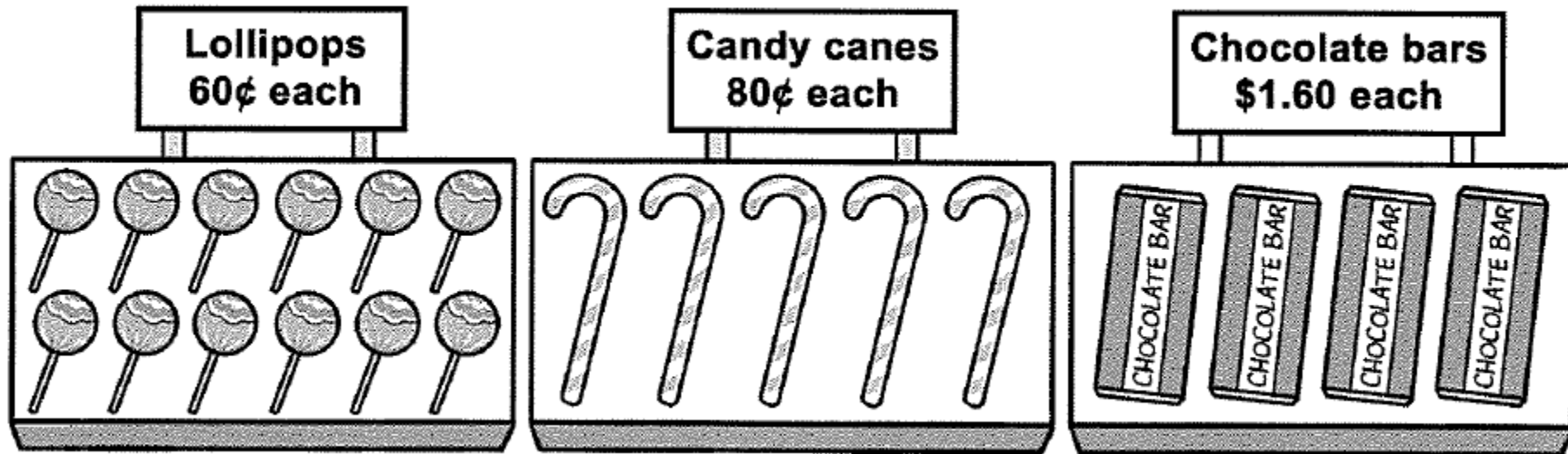
---

Andy bought a sack of flour of mass 10.2 kg. He repacked all the flour into 8 packets of two different sizes of masses 0.9 kg and 1.5 kg. How many packets of flour were of mass 1.5 kg?



# Decimals - 2

A lollipop cost \$0.60, a candy cane cost \$0.80 and a bar of chocolate cost \$1.60. Brenda bought some lollipops, candy canes and bars of chocolate. She spent the same amount of money on each type of confectionary. What was the minimum number of each time of confectionary she bought?





THE SCIENCE  
ACADEMY

# Time - 1

---

Lisa is training for a charity run. She ran for 30 minutes on her first training session. She increases each subsequent training session by 10 minutes each time. If she started running at 6.20 p.m. on her 5th training session, at what time will she finish training?



THE SCIENCE  
ACADEMY

# Time - 2

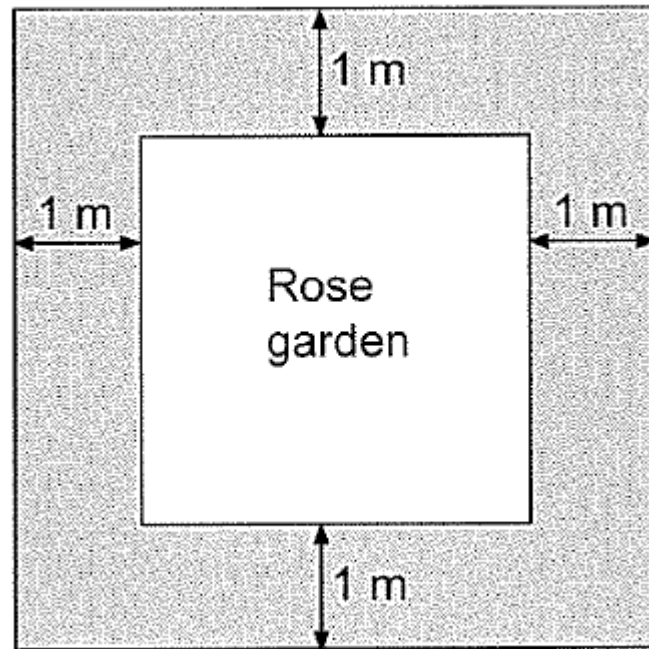
---

The time in Singapore is 4 hours ahead of the time in Dubai. Andy took a flight from Singapore to Dubai at 22 45 Singapore time on 23<sup>rd</sup> June. He arrived in Dubai at 01 25 Dubai time on 24<sup>th</sup> June. How long was the flight?



# Area and Perimeter - 1

The figure below shows a square rose garden. A path of width 1 m is build around it. If the area of the path is  $32\text{m}^2$ , find the area of the rose garden.

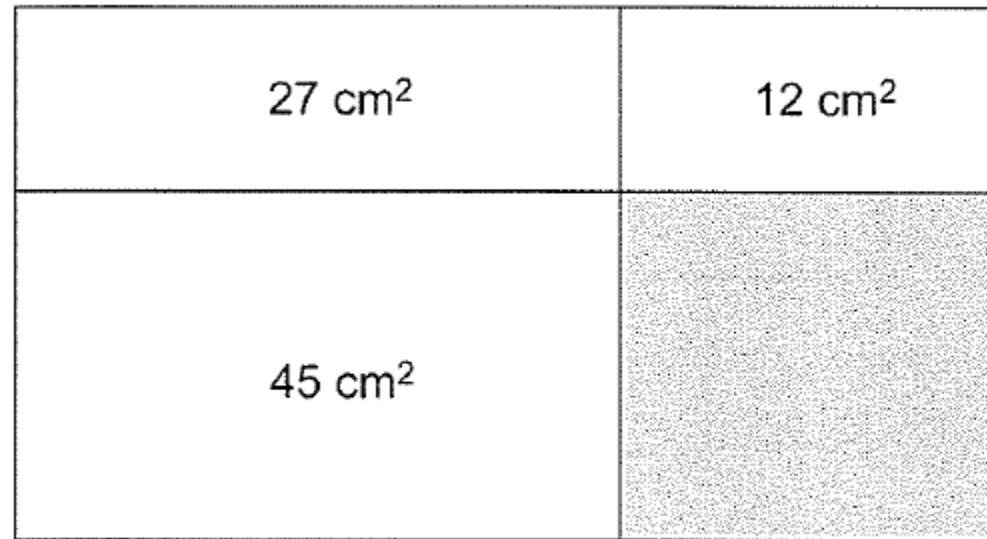






# Area and Perimeter - 2

The figure below is made up of 4 rectangles. Find the area of the shaded rectangle.





# Bar Graphs - 1

The table shows the number of 10 cents and 20 cent coins Tim, Rita and Sarah had.

(a) Tim had twice as many 20 cent coins as 10 cent coins. Complete the table provided.

(b) Sarah exchanged some of her 20 cent for 10 cent coins. She then had the same number of 10 cent and 20 cent coins. How many 20 cent coins did Sarah have in the end?

Name	10¢ coins		20¢ coins		Total
	Number of coins	Amount	Number of coins	Amount	
Tim	24	\$2.40			
Rita	35	\$3.50			\$11.50
Sarah					
Total		\$8.90		\$30.80	



# Bar Graphs - 2

The graph shows the amount of water in a tank for 45 minutes. The height of the tank was 180 cm.

(a) How long did it take for the tank to be half-full?

Once the tank was half-full, water stopped flowing into the tank. After the tank was half-full for 5 minutes, 8 identical weights were added to the tank.

(b) How long were the weights inside the tank?

(c) How many of such weights need to be added to the tank after 45 minutes to make it completely full?

