NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION
2021

PRIMARY 3

MATHEMATICS
(BOOKLET A)

Total Duration for Booklets A and B: 1 hour 45 minutes

Additional materials: Optical Answer Sheet (OAS)

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Shade your answers in the Optical Answer Sheet (OAS) provided.

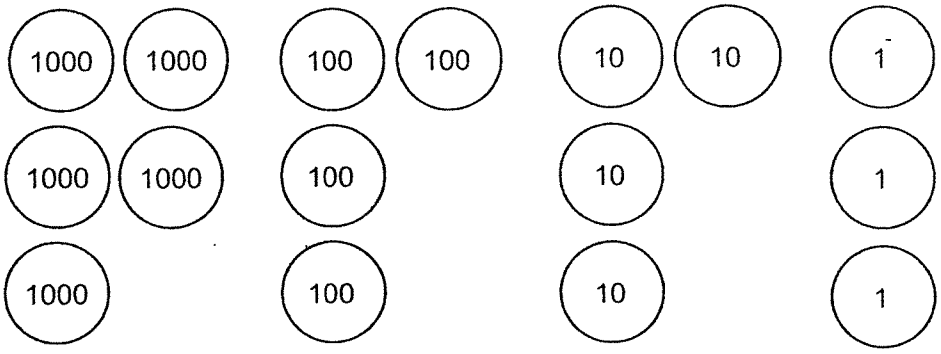
Name: _____ ( )

Class: Primary 3 ( )

Questions 1 to 20 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet. (40 marks)

---

1. Look at the number discs below.



What is the value represented by all the number discs shown?

(1) 5443

(2) 5543

(3) 6343

(4) 6433

2. Arrange the following numbers in order, starting from the greatest.

6224	6422	2264	2426

	Greatest			Smallest
(1)	6422,	6224,	2264,	2426
(2)	6422,	6224,	2426,	2264
(3)	2264,	2426,	6422,	6224
(4)	2264,	2426,	6224,	6422

3. Find the sum of 2353 and 5326.

(1) 7679

(2) 7039

(3) 3633

(4) 3033

4. There were 8573 children and 2665 adults at a carnival.
How many fewer adults than children were at the carnival?

(1) 6908

(2) 6112

(3) 5912

(4) 5908

5. 6×7 has the same value as _____.

(1) $6 \times 6 \times 6 \times 6 \times 6 \times 6$

(2) $6 + 6 + 6 + 6 + 6 + 6$

(3) $7 + 7 + 7 + 7 + 7 + 7$

(4) $7 \times 7 \times 7 \times 7 \times 7 \times 7$

6. What is the product of 397 and 8?

(1) 2426

(2) 2876

(3) 3176

(4) 3796

7. What is 755 divided by 7?

(1) 17

(2) 17 R 6

(3) 107

(4) 107 R 6

8. Which of the following is **not** an equivalent fraction of $\frac{2}{3}$?

(1) $\frac{4}{6}$

(2) $\frac{5}{8}$

(3) $\frac{6}{9}$

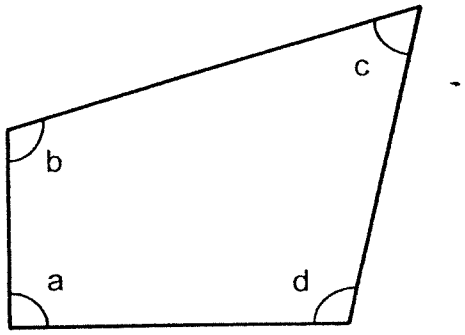
(4) $\frac{8}{12}$

9. Arrange the fractions in order, starting from the smallest.

$$\frac{2}{12}, \frac{4}{7}, \frac{5}{11}, \frac{1}{2}$$

	Smallest			Greatest
(1)	$\frac{1}{2}$,	$\frac{2}{12}$,	$\frac{4}{7}$,	$\frac{5}{11}$
(2)	$\frac{2}{12}$,	$\frac{5}{11}$,	$\frac{1}{2}$,	$\frac{4}{7}$
(3)	$\frac{5}{11}$,	$\frac{4}{7}$,	$\frac{2}{12}$,	$\frac{1}{2}$
(4)	$\frac{4}{7}$,	$\frac{1}{2}$,	$\frac{5}{11}$,	$\frac{2}{12}$

10. In the figure below, which one of the following angles is a right angle?



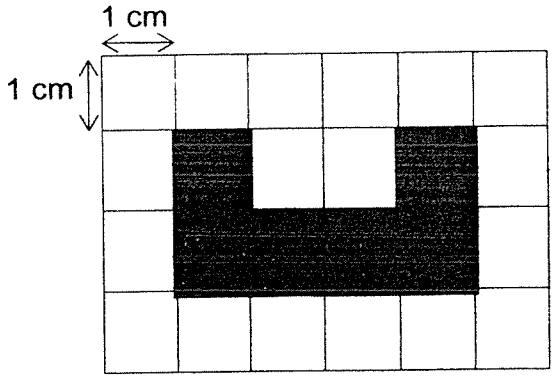
(1) $\angle a$

(2) $\angle b$

(3) $\angle c$

(4) $\angle d$

11. Find the perimeter of the shaded figure below.



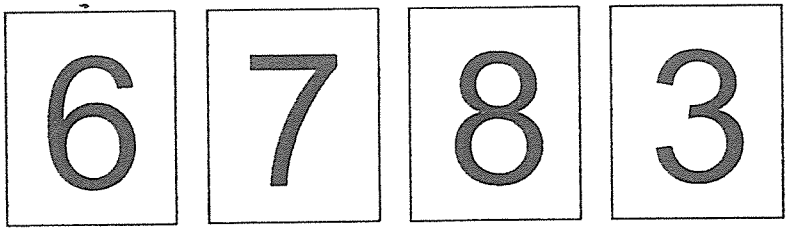
(1) 6 cm

(2) 12 cm

(3) 14 cm

(4) 19 cm

12. Look at the number cards below.
Each number can only be used once.



Form the smallest 4-digit **odd** number with the given cards.

(1) 8763

(2) 8736

(3) 3687

(4) 3678

13. Study the number pattern below.

9016	9011	9006	9001	?

What is the missing number?

(1) 8886

(2) 8991

(3) 8995

(4) 8996

14. In a competition, there were 41 teams of women and 51 teams of men.
Each team had 4 people.
How many people took part in the competition?

(1) 368

(2) 278

(3) 204

(4) 164

15. The cost of 6 similar bread toasters is $654.
A microwave oven costs as much as 3 such bread toasters.
What is the cost of the microwave oven?

(1) $109

(2) $190

(3) $218

(4) $327

16. The distance between Mr Lim's house and a swimming pool is 2946 m.
He walked from his house to the swimming pool and back to his house again after his swim.
What was the total distance he walked?

(1) 2 km 946 m

(2) 5 km 892 m

(3) 29 km 46 m

(4) 58 km 92 m

17. A total of 4800 people took part in a walkathon.
There were 1330 boys and 1250 girls.
The rest of the people were adults.
How many adults were there?

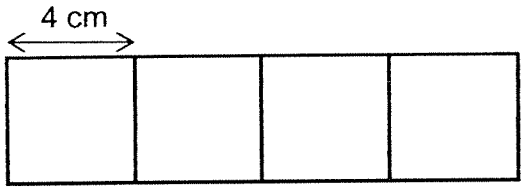
(1) 2220

(2) 2380

(3) 2580

(4) 3470

18. The rectangle below is made up of 4 identical squares.
Find the perimeter of the rectangle.



(1) 32 cm

(2) 40 cm

(3) 52 cm

(4) 64 cm

19. For every 5 pens Dawn buys, she will get 1 file for free.
She buys 47 pens.
How many files does Dawn get for free?

(1) 8

(2) 2

(3) 9

(4) 10

20. Srija is thinking of a 4-digit number.
The digit in the ones place is an even number.
The digit in the hundreds place is an odd number.
The digit in the tens place is 2 more than the digit in the thousands place.
What is the number?

(1) 2830

(2) 4168

(3) 7375

(4) 9374

NANYANG PRIMARY SCHOOL

END-OF-YEAR EXAMINATION 2021

PRIMARY 3

MATHEMATICS
(BOOKLET B)

Total Duration for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO PUPILS

1. Do not turn over this page until you are told to do so.
2. Follow all instructions carefully.
3. Answer all questions.
4. Write your answers in this booklet.

Name: _____ ( )

Class: Primary 3 ( )

Parent's Signature: _____

Booklet A	**/ 40**
Booklet B	**/ 60**
Total	**/ 100**

Please sign and return the examination paper the next day. Any queries should be raised at the same time when returning the paper.

Questions **21** to **40** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (40 marks)

21. Fandi sold 2256 pizzas on Saturday.
He sold 628 more pizzas on Sunday than on Saturday.
How many pizzas did he sell on Sunday?

Ans: _____

22. What is the missing numerator in the box?

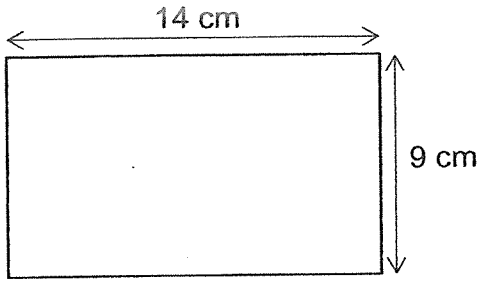
$$\frac{5}{8} = \frac{\boxed{?}}{64}$$

Ans: _____

23. Write 213 min in hours and minutes.

Ans: _____ h _____ min

24. The length of a rectangular postcard is 14 cm.
Its breadth is 9 cm.



What is the area of the post card?

Ans: _____ cm^2

---

25. Mrs Tan bought 2 boxes of cookies.
There were 12 pieces of cookies in each box.
Mrs Tan then packed all the cookies into bags of 8.
How many bags of cookies did she pack?

Ans: _____

---

26. A baker baked 405 muffins a day.
How many muffins did he bake in a week?

Ans: _____

---

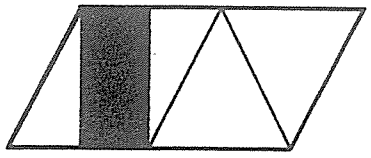
27. A machine produced 854 building blocks.
Janice put 9 building blocks into each stack.
What is the smallest number of building blocks that were **not** put into a stack?

Ans: _____

28. Johari had 200 marbles.
He put 32 marbles into a box.
He then put all the remaining marbles into some bottles.
He put 6 marbles in each bottle.
How many bottles did Johari use altogether?

Ans: _____

29. The figure below is made up of 4 identical triangles.



What fraction of the figure is shaded?
Give your answer in its simplest form.

Ans: _____

30. Look at the equation below.

$$\frac{1}{2} + \frac{1}{6} = \boxed{?}$$

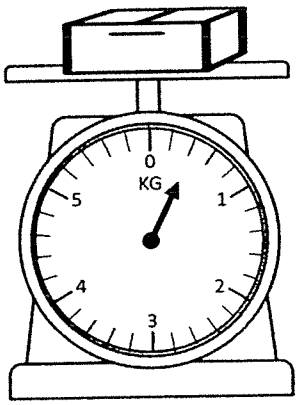
Put a tick (√) in the box if the statement is correct.
Put a cross (×) in the box if the statement is wrong.

	Statement	**Tick (√) / Cross (×)**
a	The missing fraction is less than $\frac{1}{2}$.	
b	The missing fraction is greater than $\frac{1}{2}$.	
c	The missing fraction is $\frac{2}{8}$.	
d	The missing fraction is $\frac{2}{3}$.	

31. A pair of shoes costs $84.
The pair of shoes is $11.20 cheaper than a dress.
What is the cost of the dress?

Ans: $_____

32. A weighing scale was used to measure the mass of 1 empty box.



What is the mass of 6 such empty boxes?
Give your answer in kilograms and grams.

Ans: _____ kg _____ g

33. Albert weighs 78 kg.
Albert weighs twice as heavy as Mary.
Evelyn weighs 27 kg heavier than Mary.
How heavy is Evelyn?

Ans: _____ kg

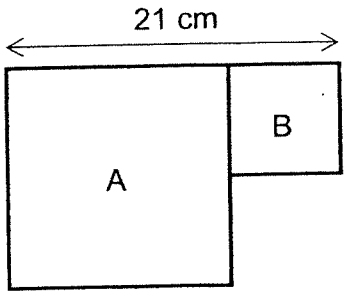
---

34. Caleb started painting a picture at 8.25 a.m.
He stopped painting the picture at 12.15 p.m.
How long did Caleb take to paint the picture?

Ans: _____ h _____ min

---

35. The figure below is made up of Square A and Square B.
The length of Square A is twice the length of Square B.

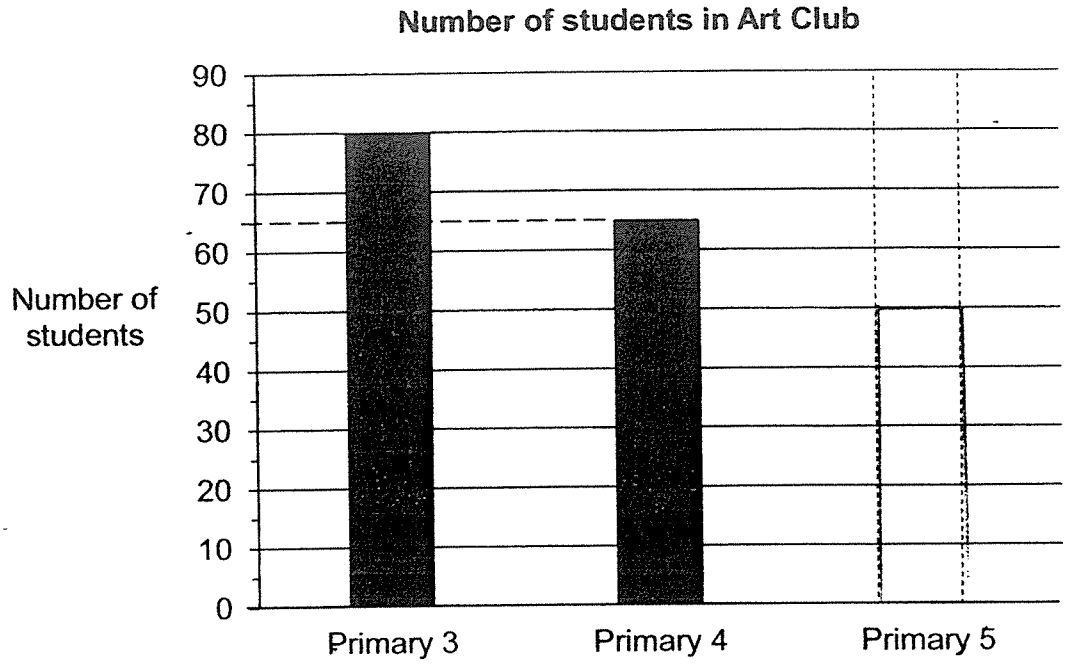


Find the area of Square B.

Ans: _____ cm^2

36. The bar graph below shows the number of students in an Art Club.
The students are from Primary 3, Primary 4 or Primary 5.
There are 195 students altogether.

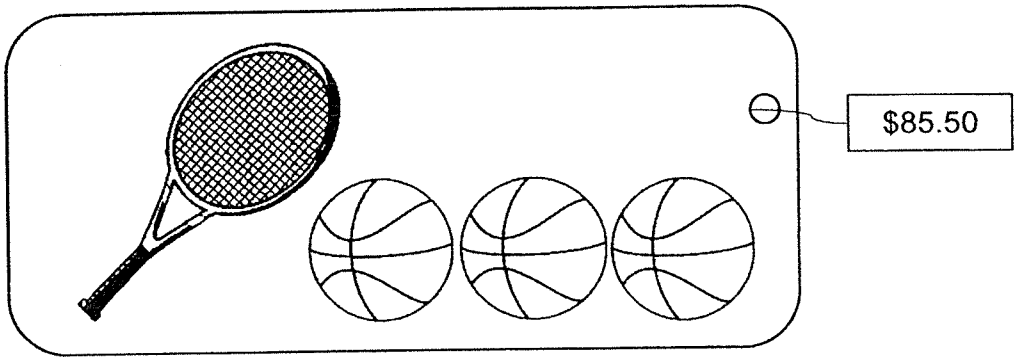
Complete the bar graph to show the number of Primary 5 students.



37. Sam has 3709 cards.
Peter has 991 more cards than Sam and 279 more cards than Ahmad.
How many cards does Ahmad have?

Ans: _____

38. A tennis racket and 3 similar basketballs cost $85.50.
The tennis racket and one such basketball cost $55.50.
How much do 4 such basketballs cost?



Ans: $_____

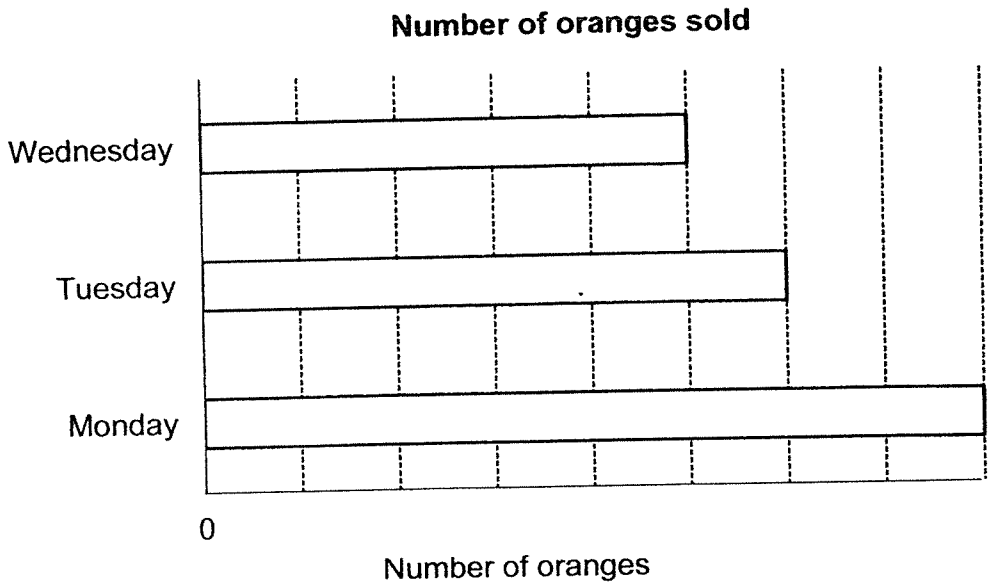
39. Ali had some stamps at first.
Ali gave half of his stamps to Betty and his mother gave him another 28 stamps.
He had 338 stamps in the end.
How many stamps did Ali have at first?

Ans: _____

40. A fruit seller sold some oranges over 3 days.
The table below shows the number of oranges sold on Monday and Tuesday.
The number of oranges sold on Wednesday is not shown.

Days	Monday	Tuesday	Wednesday
Number of oranges sold	40	30	

The bar graph below shows the number of oranges sold by the fruit seller from Monday to Wednesday.



How many oranges did the fruit seller sell on Wednesday?

Ans: _____

For questions **41** to **45**, show your working clearly and write your answers in the spaces provided. The number of marks available is shown in brackets [ ] at the end of each question or part-question. (20 marks)

---

41. There are 1502 children at a stadium.
830 of them are girls.
(a) How many boys are there?

(b) The girls need to group themselves into groups of 8.
How many groups of 8 girls are there?

Ans: (a) _____ [2]

(b) _____ [2]

---

42. The starting time and duration for different movies are as shown below.

	Burning Fire Duration: 1 h 30 min		**How to Tame Your Dragon Duration: 2 h**	
Movie Timings	11 a.m.	4.30 p.m.	10.30 a.m.	4.50 p.m.
	12.20 p.m.	5 p.m.	2.40 p.m.	6 p.m.
	2.45 p.m.	8.55 p.m.	4.30 p.m.	9 p.m.

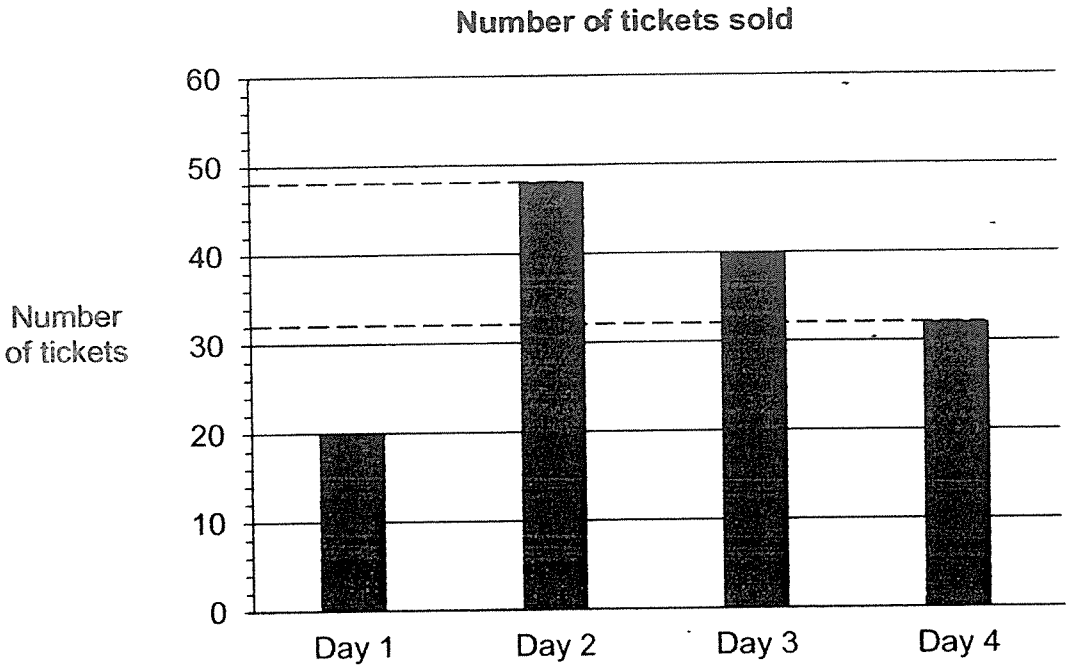
(a) Serene watched "Burning Fire".
The movie she watched started between 2 p.m. and 4 p.m.
What time did the movie end?

(b) Shanice watched "How to Tame Your Dragon".
The movie ended at 6.30 p.m.
What time did the movie start?

Ans: (a) _____ [2]

(b) _____ [2]

43. The bar graph below shows the number of tickets sold over 4 days.



a) At the end of Day 3, there were 85 tickets left.
How many tickets were there at the beginning of Day 3?

b) Each ticket cost $5.
How much more money was collected on Day 2 than Day 4?

Ans: (a) _____ [2]

(b) _____ [2]

44. Choy Fong has a blue container, a yellow container, a red container and a green container.

(a) The total capacity of the blue container and the yellow container is 650 ml.
The capacity of the blue container is 250 ml less than the capacity of the yellow container.
What is the capacity of the blue container?

(b) The capacity of the green container is 370 ml.
The capacity of the red container is half the capacity of the green container.
What is the capacity of the red container?

Ans: (a) _____ [2]

(b) _____ [2]

45. Joseph used sticks to make some figures.
He used 4 sticks to make each Figure 1 and 3 sticks to make each Figure 2 as shown below.

Figure 1

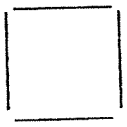


Figure 2

(a) Joseph made nine Figure 1. How many triangles could he make with the same number of sticks?

(b) Joseph made some Figure 1 and Figure 2 with a total of 30 sticks.
He made more Figure 1 than Figure 2.
How many Figure 1 did he make?

Ans: (a) _____ [2]

(b) _____ [2]

End of Paper

ANSWER KEY

YEAR : 2021
LEVEL : Primary 3
SCHOOL : Nanyang Primary School
SUBJECT : MATHEMATICS
TERM : End-of-Year Examination

BOOKLET A

Q1	1	Q2	2	Q3	1	Q4	4	Q5	2
Q6	3	Q7	4	Q8	2	Q9	2	Q10	1
Q11	3	Q12	3	Q13	4	Q14	1	Q15	4
Q16	2	Q17	1	Q18	2	Q19	3	Q20	2

BOOKLET B

Q21	2256+628=$2884	Q22	64÷8=8, 5x8=40
Q23	3h 33min	Q24	14x9= 126cm^2
Q25	2x12=24 24÷8=3	Q26	405x7=2835
Q27	8, 854÷ 9=94 R 8 94 + 8 = 102 102 - 94 = 8	Q28	200-32=168 168÷6=28
Q29	$\frac{1}{4}$	Q30	a) cross b) tick c) cross d) tick
Q31	84+11.20=$95.20	Q32	0.4kgx6=2.4kg 2.4kg=2kg 400g
Q33	78÷2=39kg 39+27=66kg	Q34	3h55min+15min=3h50min
Q35	21÷ 3=7cm 7x7=49cm^2	Q36	80+65=145 195-145=50 (shade a bar of 50)
Q37	3709+991=4700 4700-279=4421	Q38	88.50-55.50=30 30+30=$60
Q39	338-28=310 310x2=620	Q40	25
Q41	(a) 1502-830=672 boys (b) ~~130~~ 163 groups, 830÷8=103 R 6	Q42	(a) started at 2.45p.m. movie ended at 4.15p.m. (b) started at 4.30p.m.

Q43	(a) 85+40=125 tickets (b) 48-32=16 16x5=$80	Q44	(a) 650-250=400 400÷2=200ml (b) 370÷2=185ml
Q45	(a) 4x9=36 36÷3=12 (b) 4 (guess and check) fig1, 4x6=24 fig2, 2x3=6		

END