



AIM 2006

Achievement Improvement Monitor

Year
5

STATEWIDE ASSESSMENT

MATHEMATICS TEST

STUDENT DETAILS

TEST INSTRUCTIONS

1. You must do your own work.
2. Do not speak to other students during the test.
3. Raise your hand if you need to speak to the teacher.
4. Follow all directions given to you by the teacher.
5. All questions must be answered using the pencil you have been given. If you need to change an answer, carefully erase it and write another answer.
6. You are not permitted to use a calculator.
7. To confirm you have the correct booklet, print your name below.

Print your name here:

YOU HAVE 45 MINUTES TO COMPLETE THIS TEST.

Year 5 Practice Questions

P1

How many days in one week?

Shade one
bubble

- ☐ 2
- ☐ 5
- ☐ 7
- ☐ 10

P2

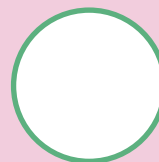
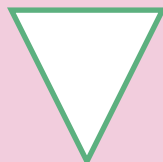
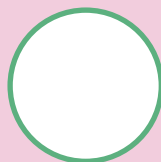
5

× 3

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Write one number
in each box

P3



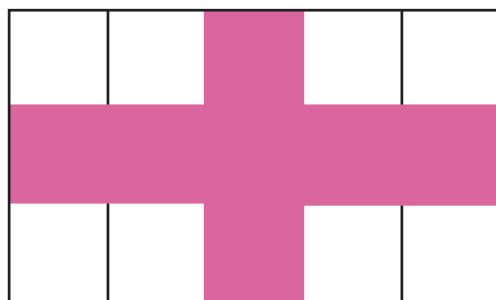
Write one number
in the box

How many of these shapes are circles?

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Year 5 Mathematics – You have 45 minutes to complete this test.

1



Shade one bubble

What fraction of the figure is shaded?

$$\frac{8}{15}$$

☐

$$\frac{7}{15}$$

☐

$$\frac{7}{8}$$

☐

$$\frac{1}{2}$$

☐

2

$$56 + 18 = \boxed{} \boxed{}$$

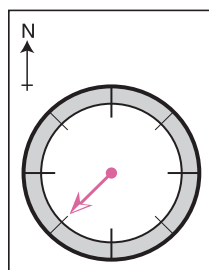
Write one number in each box

3

In which direction is the compass needle pointing?

Shade one bubble

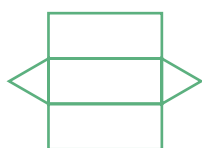
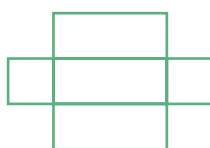
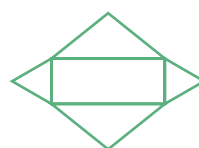
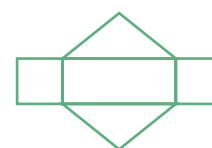
- ☐ north-east
- ☐ north-west
- ☐ south-east
- ☐ south-west



4



Which net can be folded to make a triangular prism?

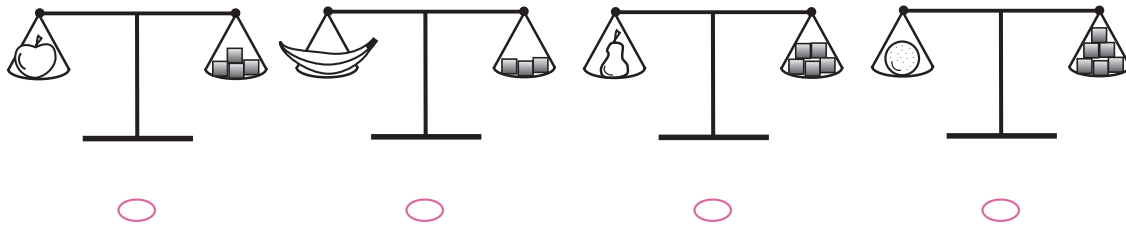

☐

☐

☐

☐

5

Sam is comparing the mass of different fruits.

Which scale has the fruit with the greatest mass?

Shade one bubble



6

A whole number is multiplied by 5.

Which number could be the result?

830

831

832

833



7

A square has sides 9 cm long.

The perimeter of the square is

cm

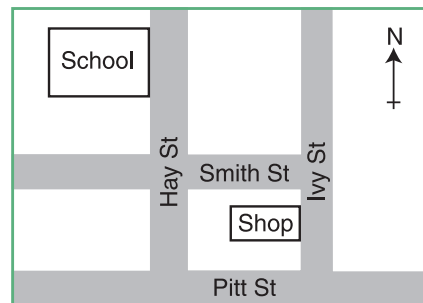
Write one number in each box

8

Peter walks the shortest way by road from the school to the shop.

Which directions does he walk?

- ☐ North then East then North.
- ☐ North then West then North.
- ☐ South then East then South.
- ☐ South then West then South.



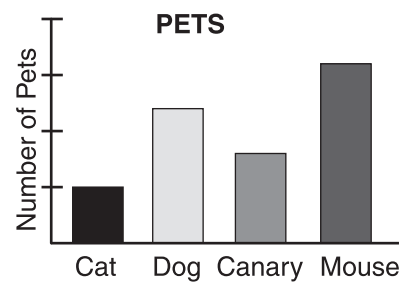
Shade one bubble

9

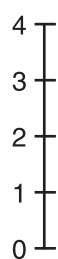
The table below was used to make the 'PETS' graph.

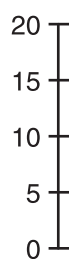
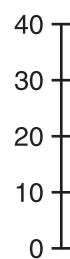
Shade one bubble

Pet	Number
Cat	5
Dog	12
Canary	8
Mouse	16



The scale on the 'Number of Pets' axis should be


☐

☐

☐

☐

10

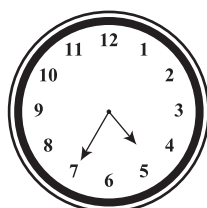
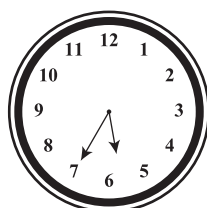
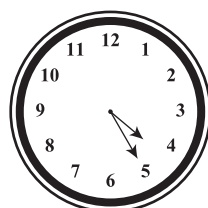
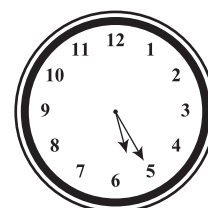
$$307 + ? = 342$$

The missing number is

- ☐ 35
- ☐ 45
- ☐ 55
- ☐ 135

11

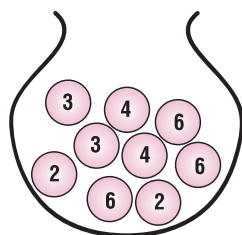
Which clock shows the time 5:25 correctly?


☐

☐

☐

☐

12

Brad mixes up these balls, then picks one without looking.

Shade one
bubble



He is **most** likely to pick a ball with the number

2

☐

3

☐

4

☐

6

☐

13

$$78 \div 3 =$$

26

☐

29

☐

39

☐

234

☐

14

What operation is needed to make this number sentence true?

$$2 + 16 \text{ ? } 4 = 6$$

+

☐

−

☐

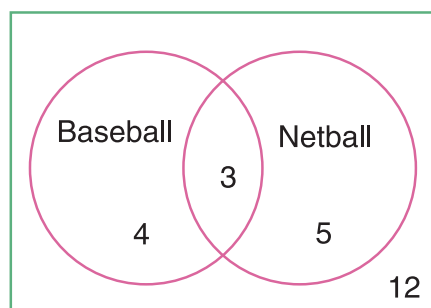
×

☐

÷

☐

15



From the Venn diagram above, how many people play baseball or netball, but not both?

4

☐

5

☐

9

☐

12

☐

16

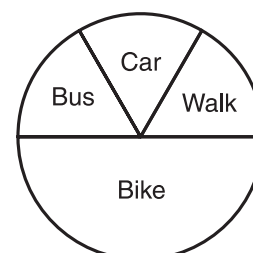
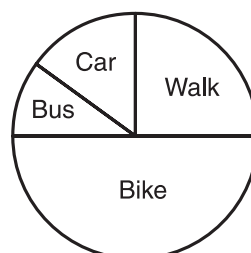
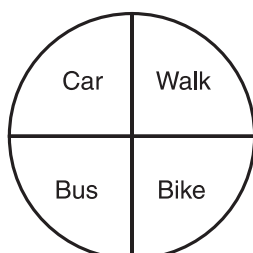
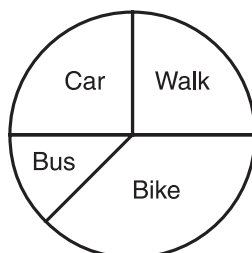
Thirty-two students in Year 5 record how they travel to school.

The results are shown in the table below.

Shade one
bubble

Method of Travel	Number of Students
Car	8
Bus	4
Bike	12
Walk	8

Which pie graph shows the results?



17

$$12 - (6 - 3) =$$

3



4



8



9



18

$$1.7 + 1.9 =$$

1.16



2.16



2.6



3.6



19

Which letter does **not** have a line of symmetry?

A



D



F

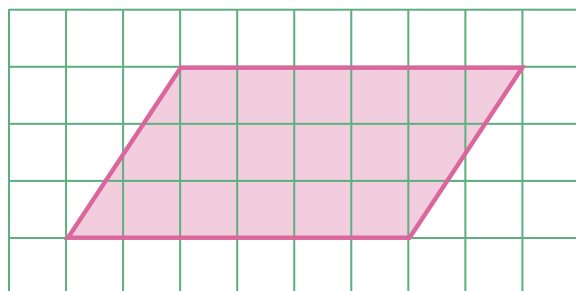


M



20

What is the area of the parallelogram?

Shade one
bubble

Scale

 = 1 cm²

- ☐ 10 cm²
☐ 15 cm²
☐ 18 cm²
☐ 20 cm²

21

Which list contains only factors of 12?

- ☐ 2, 3, 4, 6
☐ 2, 3, 4, 8
☐ 3, 6, 9, 12
☐ 3, 6, 8, 12

22

What is the next number in this sequence?

2, $2\frac{2}{3}$, $3\frac{1}{3}$, ...
☐ $3\frac{2}{3}$
☐ 4

☐ $4\frac{1}{3}$
☐ 5

23

Kim bought a loaf of bread and a bread stick.



\$2.80



\$2.60

How much change did he get from \$10.00?

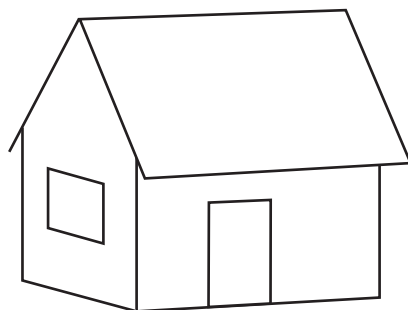
- ☐ \$4.40
☐ \$4.60
☐ \$5.40
☐ \$5.60

24

How many vertical lines can be seen in this drawing?

Shade one bubble

- ☐ 3
- ☐ 5
- ☐ 7
- ☐ 9



25

Which one of the following is a prime number?

- ☐ 4
- ☐ 5
- ☐ 9
- ☐ 10

26

Ted worked for 50 hours in June, 40 hours in July and 30 hours in August.

Write one number in each box

For these three months, the mean (average) number of hours he worked per month was

hours.

27

$$4 + ? = 20 - 3$$

The missing number is

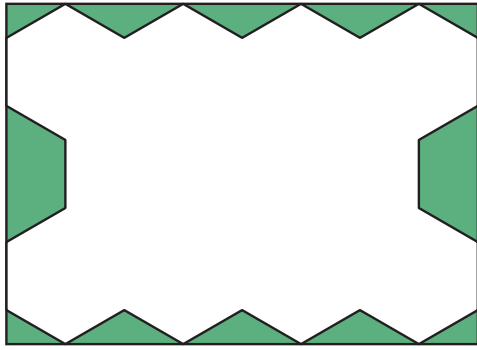
28

$$23 \times 14 =$$

Shade one bubble

- ☐ 115
- ☐ 222
- ☐ 312
- ☐ 322

29



Shade one bubble

Tanya has started to tile a floor.

Which shape tile could she use to cover the unshaded part of the floor leaving no gaps?



30

What is the difference between 36×23 and 35×23 ?

1



23



35



36



31

Which fraction has the highest value?

$\frac{3}{4}$



$\frac{7}{8}$



$\frac{13}{16}$



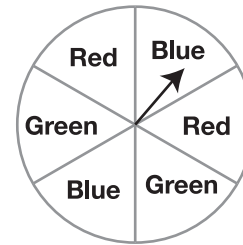
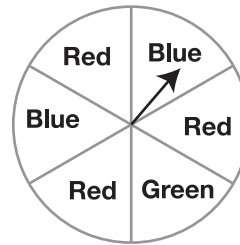
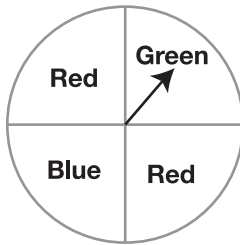
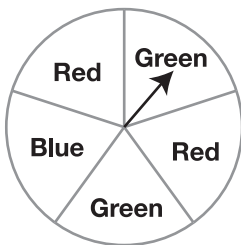
$\frac{1}{2}$



32

These spinners are spun again.

Which spinner gives a player an equal chance of landing on each colour?

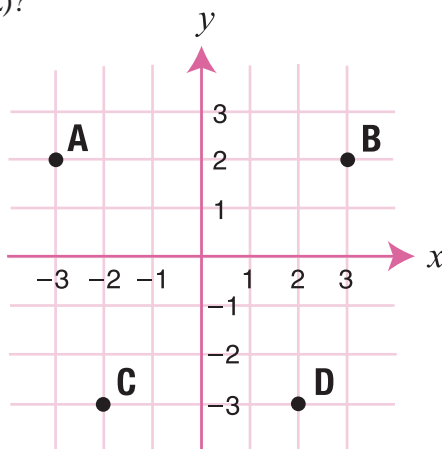


33

Which point has the coordinates (3, 2)?

Shade one
bubble

- ☐ A
- ☐ B
- ☐ C
- ☐ D



34

What is the time 74 minutes before 4:00 pm?

- ☐ 2:46 pm
- ☐ 2:56 pm
- ☐ 3:46 pm
- ☐ 5:14 pm

35

The number of days between June 3 and October 3, in the same year is closest to

- ☐ 30 days.
- ☐ 60 days.
- ☐ 90 days.
- ☐ 120 days.

36

2, 3, 5, 9, 17, **?**, 65, ...

The missing number for this pattern is

- ☐ 29
- ☐ 33
- ☐ 34
- ☐ 41

37 $\frac{3}{5}$ is equal to

Shade one bubble

- ☐ 0.5
☐ 0.6
☐ 1.2
☐ 1.5

38 10% of \$35.00 = \$.

Write one number in each box

39 $\frac{2}{3}$ of 54 =

40 A timetable for trains travelling between Melbourne and Ballarat is shown below.

Train	A	B
Leaves Melbourne	7:06 am	7:55 am
Arrives Ballarat	8:40 am	9:16 am

How much longer does train **A** take to make the journey than train **B**?

minutes