Date: _____

Score: _____

Basic Questions

1. Name the types of the angles below.

   (a)

   _____ angle

   (b)

   _____ angle

   (c)
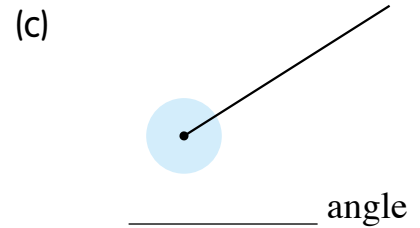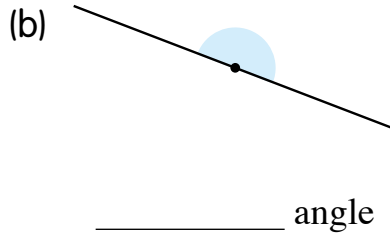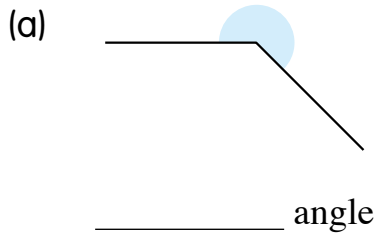
   _____ angle

2. Measure the sizes of the angles below with a protractor.

   (a)

   A

   B   C

   ∠ABC = _____

   (b)

   k

   ∠k = _____

   (c)

   X   Z

   Y

   ∠XYZ = _____
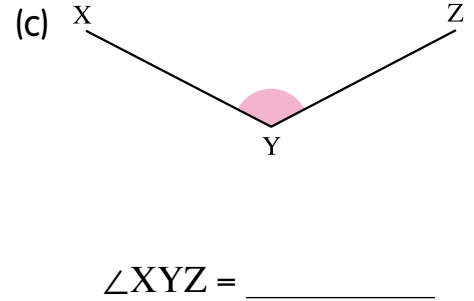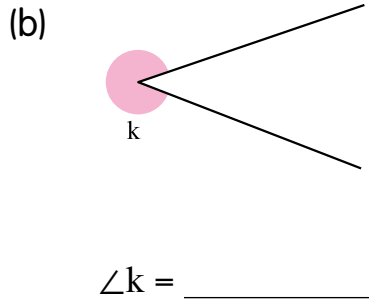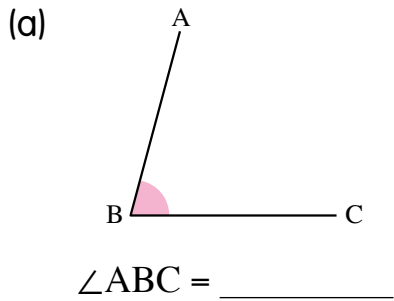
3. Draw the specified angles using a protractor.

   (a) ∠PQR = 130°

   (b) ∠q = 310°

4. How many right angles are equal to 1 round angle?
   - A. 4
   - B. 3
   - C. 2
   - D. 1

Tips

Right angle = 90°
Straight angle = 180°
Round angle = 360°

5. On each piece of squared paper below, add a straight line to form the specified angle.
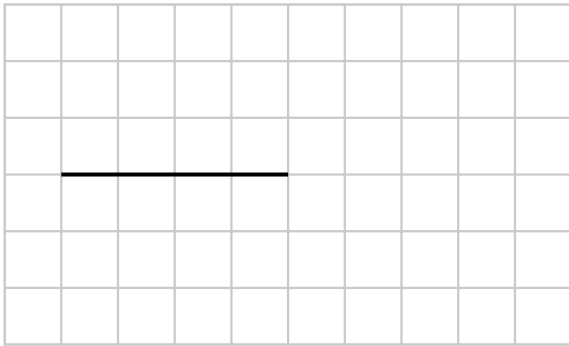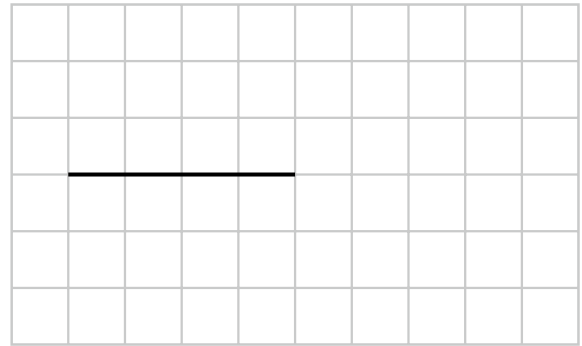
   (a) Straight angle

   (b) Reflex angle

6. In the figure below, draw a straight line along the dotted line which forms an angle of 160° with straight line F.

   F
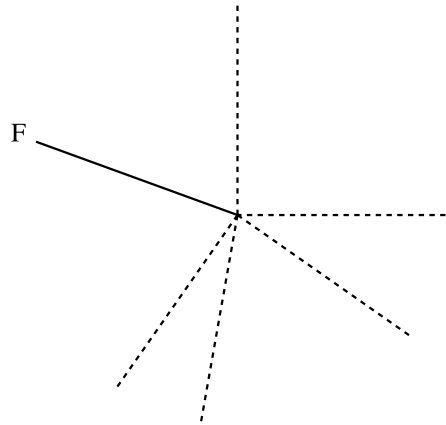
7. Measure the sizes of the following three angles with a protractor. Arrange them from the largest to the smallest. Write the letters for the answer.

   x   y   z
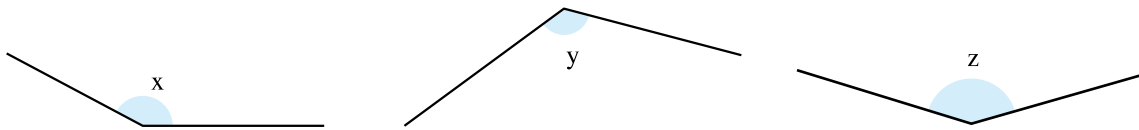
   Answer: ∠ _____, ∠ _____, ∠ _____
        (Largest)   (Smallest)

8. Kama slept for 9 hours and woke up at 9 o'clock this morning. When she started to sleep last night, the hour hand and minute hand on the clock face formed a/an _____ angle.

Formative Assessment 2

Self-Assessment

✔ Correct
✖ Incorrect

1. 2.6 times of x is half of 26. Find x.

    Answer: $x =$ _____

2. Each bottle contained y mL of soft drink originally. After upgrading, each bottle contains 25% more soft drink, that is, a total of 950 mL. How many millilitres of soft drink did each bottle contain originally?
    - ○ A. 237.5 mL
    - ○ B. 712.5 mL
    - ○ C. 760 mL
    - ○ D. 925 mL

3. Jenny has an iron wire of length 84 cm. She uses it to exactly enclose an equilateral triangle, a regular pentagon and a square of the same side length. The side length of each shape is _____.
    (Give the answer with a unit)

4.

    Broad Way Electrical Shop

    Enjoy $50 off first before any sales for shopping with your membership card.

    Broad Way Electrical Shop offers a sale. The selling price is 80% of the original price. The original price of a hair dryer is $L. Mum buys it with her membership card. She needs to pay $228 only.

    (a) Which of the following equations can be used to find the original price of the hair dryer?
    - ○ A. $L \times 80\% = 228$
    - ○ B. $L - 50 \times 80\% = 228$
    - ○ C. $L \times 80\% - 50 = 228$
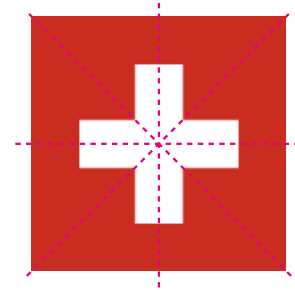   - ○ D. $(L - 50) \times 80\% = 228$
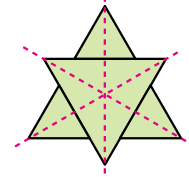
    (b) The original price of the hair dryer is $ _____.

9. The flag of Switzerland is shown on the right.

(a) Draw all the axes of symmetry on the flag.

(b) The flag of Switzerland has _____ axes of symmetry.

10. How many axes of symmetry does the figure on the right have?
   ○ A. 1
   ○ B. 2
   ○ C. 3
   ○ D. 6

11. Take the dotted lines as the axes of symmetry of the shape. Complete the axially symmetric shape on the piece of squared paper below.
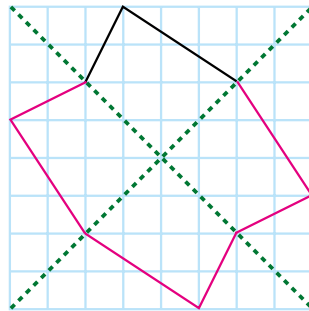
Self-Assessment Table

	Fair	Good	Great
① Simple equations	☹ (0–1)	☺ (2–3)	😄 (4–5)
② Broken line graphs	☹ (0–1)	☺ (2–3)	😄 (4–5)
③ Uses and abuses of statistical charts	☹ (0–1)	☺ (2–3)	😄 (4–5)
④ Axial symmetry	☹ (0–1)	☺ (2–3)	😄 (4–5)

(Based on the number of questions that answered correctly, colour the appropriate face.)

Challenge 1

1. Number of athletes participated in the sports day

Long jump 25%
100-metre race 37.5%
High jump
Rope skipping 25%

What's wrong?
Quite a lot of pupils fail to find the correct percentage or fraction.

How to do it?
Find out the percentage of the required part first and then change it into a fraction as the answer.
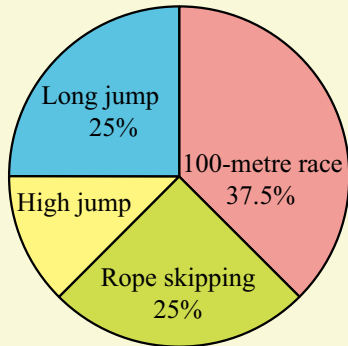
[____] of all the athletes participated in the high jump event. (Give the answer as a fraction)

Similar question: P.7 Q3(c)

Challenge 2

2. Otto completed the 60-metre race in 9.8 seconds. What was Otto's average speed? (Show your working and correct the answer to 1 decimal place)

What's wrong?
Some pupils calculate the speed wrongly.

How to do it?
Do the division of decimals carefully.

Similar question: P.11 Q7

3. The speed of a bicycle is 7.5 km/h.

It takes _____ hours to travel 52.5 km by the bicycle.

What's wrong?
Some pupils fail to choose multiplication or division to solve the problems involving speed.

How to do it?
Use multiplication to find the distance travelled. Use division to find the speed or the time taken.

Similar question: P.12 Q3

Glossary

Angles and degree

angle	角
acute angle	銳角
right angle	直角
obtuse angle	鈍角
straight angle	平角
reflex angle	反角
round angle	周角
degree	度
protractor	量角器
clockwise	順時針方向
anti-clockwise	逆時針方向

Pie charts

pie chart	圓形圖
sector	扇形
angle at the centre	圓心角

Time and speed

starting time	開始時間
finishing time	結束時間
time interval	時間間隔
(average) speed	(平均) 速率
distance travelled	路程
time	時間
metres per second (m/s)	米每秒 (m/s)
kilometres per hour (km/h)	公里每小時 (km/h)
travel graph	行程圖

Simple equations

equation	方程
solving equation	解方程
solution (of an equation)	(方程的) 解
like terms	同類項

Broken line graphs

broken line graph	折線圖
tendency	趨勢

Unit Test
Time and speed

Name: _____
Class: _____
Date: _____
Time: 10 min

Learning Objectives

① Interconversion between units of time; solve problems related to time intervals
② Recognise the concept of speed; recognise metres per second (m/s) and kilometres per hour (km/h); solve problems related to speed
③ Interpret travel graphs

Self-Assessment
✔ Correct
✗ Incorrect

10 min

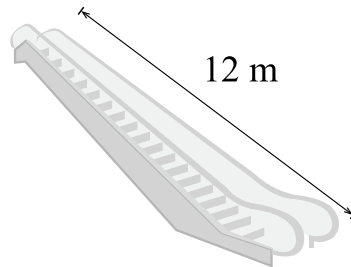1. 75 seconds = ☐ minutes (Give the answer as a fraction)

☐ ①

2. 207 minutes = _____ hours
   (Given the answer as a decimal)

☐ ①

3. Hugo started playing basketball at 11:45 a.m. He played for 2.7 hours and finished at _____ : _____ * a.m. / p.m. (* Circle the answer)

☐ ①

4. Katy is on an escalator. It takes her 15 seconds from the ground floor to the first floor. Her average speed is _____ m/s.
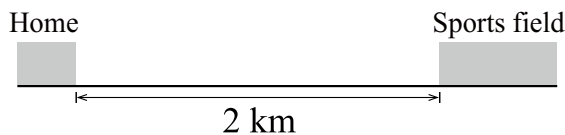
12 m

☐ ②

5. A minibus travelled 20 km in 24 minutes. The average speed of the minibus was _____ km/h.

☐ ②

6. Nicky walked from home to the sports field, and then walked from the sports field back home. His average speed was 5 km/h. How long did he take?

Home   Sports field

2 km

Answer: _____ hour(s)

☐ ②