

S1 Test 2 Revision

Time

- Write the following in 24 hour time :-
 - 9:20 am
 - 4:50 pm
 - 11:05 pm
 - 6:15 pm
- Write the following in 12 hour time :-
 - 0110
 - 1715
 - 2310
 - 0001
- A train left the station at 1105 and arrived at its destination at 1750. How long was the journey ?
- A paper round started at 6:25 am and took 1 hour 50 mins. What time did the round finish ?
- Shown is a train timetable

Glasgow	09 00	11 30	14 16	17 53	
Garrowhill	09 09	11 39	-- --	-- --	-- --
Blairhill	09 12	11 42	-- --	-- --	23 03
Sunnyside	09 14	11 44	-- --	-- --	23 09
Airdrie	09 17	11 47	14 33		23 12

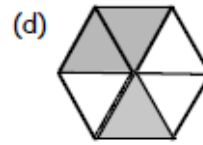
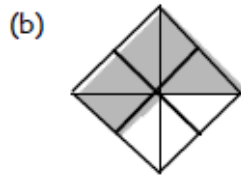
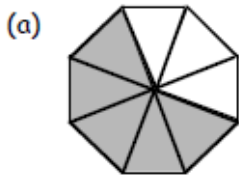


-- -- denotes express train and does not stop at the station.

- How long does it take the first train from Garrowhill to Airdrie ?
- The last train takes 16 minutes from Glasgow to Airdrie. What time does the train leave ?
- What time will the 1753 express from Glasgow arrive at Airdrie ? (Look at the 1416 express)

Fractions

- For each shape, say what fraction has been shaded :-



- Simplify each of the following fractions :-

(a) $\frac{7}{14}$

(b) $\frac{3}{12}$

(c) $\frac{14}{42}$

(d) $\frac{11}{88}$

(e) $\frac{12}{78}$

(f) $\frac{6}{84}$

(g) $\frac{25}{625}$

(h) $\frac{27}{126}$

- Find :-

(a) $\frac{1}{3}$ of 66

(b) $\frac{3}{4}$ of 48

(c) $\frac{8}{9}$ of 27

(d) $\frac{5}{7}$ of 616

- Copy each of the following and simplify (where possible) :-

(a) $\frac{1}{5} + \frac{3}{5}$

(b) $\frac{2}{7} + \frac{1}{7}$

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

(d) $\frac{8}{11} - \frac{5}{11}$

(e) $\frac{4}{5} - \frac{3}{5}$

(f) $\frac{7}{8} - \frac{5}{8}$

(g) $\frac{1}{8} + \frac{3}{8}$

(h) $\frac{4}{10} + \frac{6}{10}$

- Copy each and simplify :-

(a) $4\frac{1}{2} + 2\frac{1}{2}$

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

(c) $4\frac{3}{4} + 2\frac{3}{4}$

(d) $5\frac{7}{8} + \frac{5}{8}$

(e) $2\frac{3}{4} - 2\frac{1}{4}$

(f) $7\frac{5}{8} - 4\frac{3}{8}$

(g) $10\frac{7}{10} - 5\frac{3}{10}$

(h) $2\frac{13}{15} - 1\frac{8}{15}$

- Tom walked for $\frac{3}{8}$ of a kilometre, rested, and then walked another $\frac{1}{8}$ kilometres. How far had Tom walked in total ?

Decimals

1. What does the zero stand for in each number :-

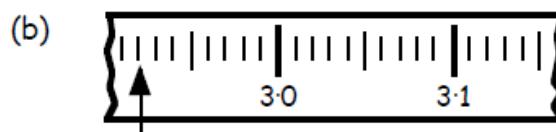
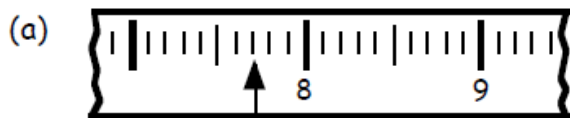
(a) 5.07

(b) 111.901

(c) 0.9815

(d) 5.1904

2. Which numbers are the arrows pointing to :-



3. Round to one decimal place :-

(a) 0.849

(b) 5.7911

(c) 99.501

(d) $10 \div 6$

4. Do the following mentally and write down the answer :-

(a) $21.72 + 5.48$

(b) $6 - 4.67$

(c) 2.63×5

(d) $5.964 \div 7$

(e) 0.61×10

(f) 7.821×100

(g) 1000×0.3247

(h) 4.32×200

5. A 5 metre length of cable is cut into 3 strips.

The first strip was 3.42 m.

The second strip was 0.75 m.

How long was the third strip.



6. Use a calculator and then round to one decimal place.

(a) A barrel holds 140.6 litres of water. How much would 17 barrels hold ?

(b) Thirteen railway cars have total length 164.2 metres. What is the length of one ?

(c) A field with area 1875 metres is fenced into four equal section.
What is the area of each section ?

(d) Twenty sweets cost £1. How much for fifty sweets ?



Integers

1. (a) Isa has £42 in her bank account. She withdraws £60. What will her balance be ?

(b) Billy has a balance of (-£44). He withdraws £28. How much is Billy now overdrawn ?

(c) Carol has a balance of (-£123). She deposits £65.

How much will she now have to deposit to clear her overdraft ?

2. (a) Jamus III was born in 12 B.C. and died in 33 A.D.

How old was Jamus III when he died ?

(b) Emperor Hirto-Sito died at the age of sixty seven in 45 A.D.

What year was he born ?

3. The afternoon temperature on a mountain top is recorded at 4°C .

The temperature drops by 16°C at night.

What is the night-time temperature ?



4. A liquid is at a temperature of 25°C . Its freezing point is -18°C .

How many degrees will the temperature have to drop to freeze the liquid ?

5. Find :-

- | | | | |
|---------------------|------------------------|--------------------------|-------------------------|
| (a) $4 + (-2)$ | (b) $6 + (-8)$ | (c) $11 + (-20)$ | (d) $-3 + (-2)$ |
| (e) $-1 + 7$ | (f) $-45 + (-33)$ | (g) $16 + (-19)$ | (h) $4 - (-2)$ |
| (i) $5 - (-11)$ | (j) $-6 - (-5)$ | (k) $3 \times (-2)$ | (l) $5 \times (-5)$ |
| (m) $(-8) \times 4$ | (n) $(-6) \times (-5)$ | (o) $(-12) \times (-10)$ | (p) $(-14) \div 2$ |
| (q) $(-36) \div 4$ | (r) $8 \div (-2)$ | (s) $(-60) \div (-12)$ | (t) $(-150) \div (-25)$ |

6. Calculate :-

- | | | |
|----------------------------|-----------------------------|----------------------------------|
| (a) $(12 + (-3)) \times 2$ | (b) $((-14) - (-6)) \div 2$ | (c) $8 \times (4 - (-5)) \div 3$ |
|----------------------------|-----------------------------|----------------------------------|

7. Simplify :-

- | | | |
|------------------|--------------------|-------------------|
| (a) $4a + (-2a)$ | (b) $32g - (-12g)$ | (c) $-5z - (-5z)$ |
|------------------|--------------------|-------------------|

Coordinates

1. The coordinates of A are $(-3, 4)$.

Write the coordinates of the other points.

2. (a) Copy the set of axes from question 1.

(b) Plot the following six points :-

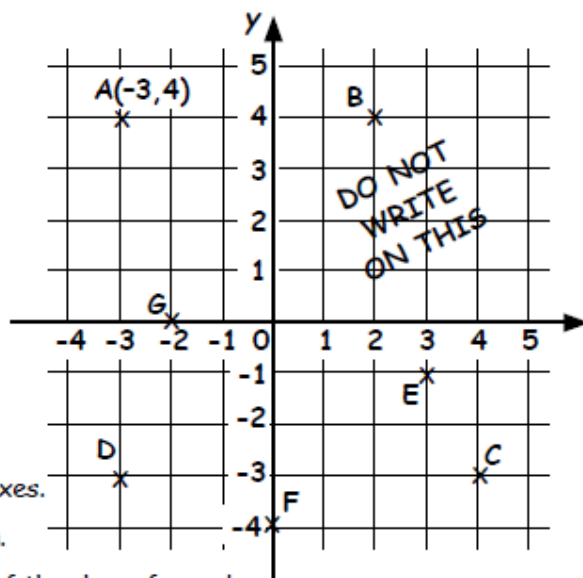
J(2, 3), K(-1, 5), L(-4, 3),
M(-4, -1) and N(2, -1).

(c) Name the shape formed when the six points are joined up in order.

3. (a) Draw a set of axes from -5 to 5 on both axes.

(b) Plot the points S(3, 2), T(5, 2) and U(6, 5).

(c) Join the three points and write the name of the shape formed.



Information Handling

1. The ages of the people at a disco were recorded :-

17 18 18 19 20 21 21 20 16 17 18

19 20 20 21 19 20 21 18 18 19 18

(a) Organise the data into a frequency table using tally marks.

(b) How many pupils were older than 19 years old.

(c) What was the most common age at the disco ?

Age	tally	frequency
16		...
17		...
18
19
...

2. From the data shown, draw a frequency table using suitable class intervals.

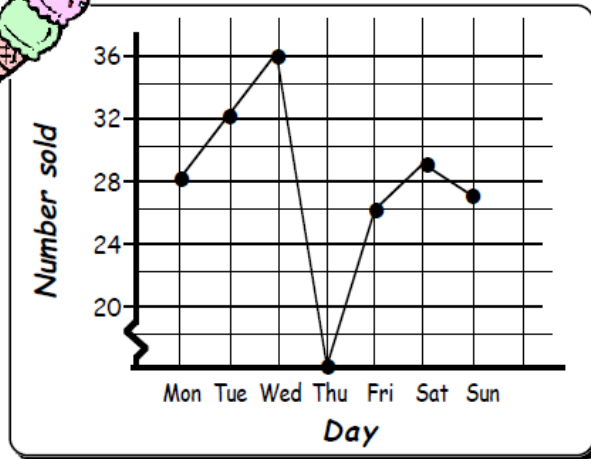
2	15	12	26	0	16	11	9	1	19	23	23
25	17	22	21	2	20	10	19	9	6	5	15
23	24	17	16	18	16	11	4	12	13	18	1

3. The disco recorded the number of crates sold :-

Crates	water	beer	alcho-pop	orange
number	20	12	6	9

Draw and label a neat bar graph to represent the information in the table.

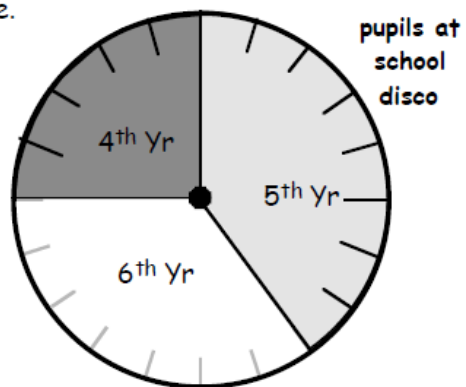
4. The line graph show the sales of Tony's ice-cream one week in July.



- (a) How many ice-cream's did Tony sell on
 - (i) Monday
 - (ii) Friday
 - (iii) Saturday
 - (iv) Sunday ?
- (b) Tony was ill one day and could not drive his van to work.
What day was Tony ill ?
- (c) What day do you think was the hottest day ? Explain.
- (d) What were the total number of ice-creams sold that week.

5. This pie chart shows this years senior school disco attendance.

- (a) What percentage of the pupils were
 - (i) 4th year
 - (ii) 5th year
 - (iii) 6th year ?
- (b) If 480 pupils attended the disco, write the attendance of each year group.



6. Eight white balls and four black balls are put into a bag.

What is the probability of randomly picking a black ball from the bag ?

7. A raffle has tickets 1 to 100. Calculate :-

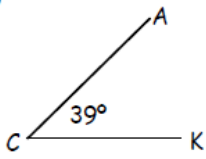
- (a) P(odd)
- (b) P(factor of 100)
- (c) P(square number).

Angles

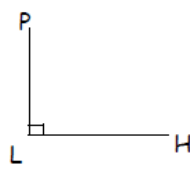
1. Write the type and name of each angle shown :-

(e.g. acute $\angle ABC = 69^\circ$)

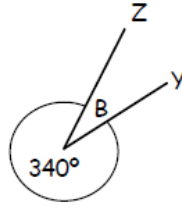
(a)



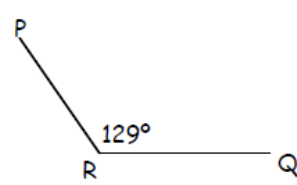
(b)



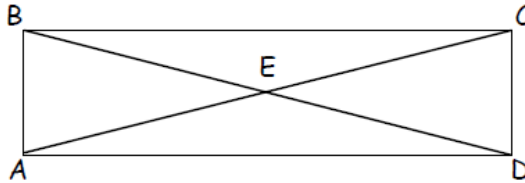
(c)



(d)



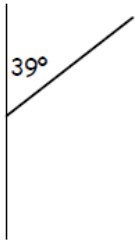
2. Name all the acute angles in this diagram.



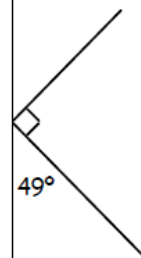
3. Make a neat rough sketch of each of the following diagrams.

Fill in all the missing angles.

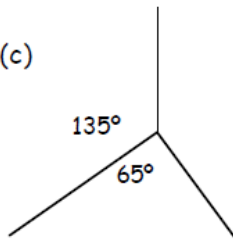
(a)



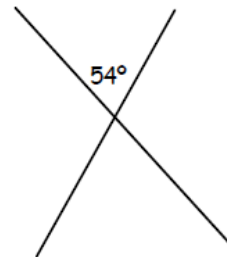
(b)



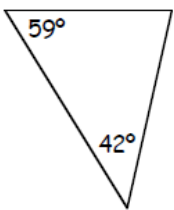
(c)



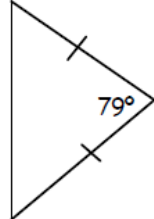
(d)



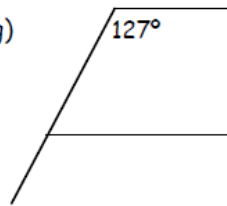
(e)



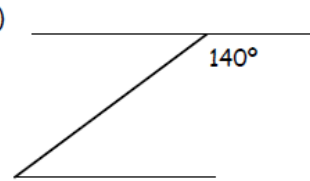
(f)



(g)

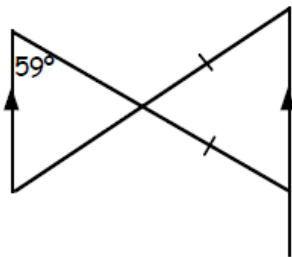


(h)



4. Sketch each of the following and fill in all the missing angles :-

(a)



(b)

