

Strathaven Academy



Level 3 – Unit 2

Homework

- Negative Numbers
- Coordinates
- Algebra
- Time
- Fractions and Percentages

Negative Numbers



1. Find :-

a $4 - 6$

b $-2 - 5$

c $-3 + 5$

d $3 + (-2)$

e $-5 + (-3)$

f $5 - (-2)$

g $-3 - (-3)$

h $126 + (-132)$

i $-1 + (-1) + (-1)$.

2. Find :-

a $-2 + (-3) - (-5) + (-4)$

b $28 - (-16) + (-43) - 10$

c $123 + (-131) - (-142)$.

3. Find :-

a $5 \times (-2)$

b $(-3) \times 8$

c $(-2) \times (-7)$

d $12 \div (-3)$

e $(-20) \div 4$

f $(-24) \div (-6)$

g $5 \times (-2) \times 3$

h $(-30) \div 6 \times (-2)$

i $(-1) \times (-2) \times (-3)$.

4. Find :-

a $5 \times (-1) \times (-3)$

b $-3 \times (-8) \div (-4) \div (-2)$.

c $(-1) \times (-1) \times (-1) \times (-1)$.

5. The balance in Harry's account read as £845.

- He withdrew £476 on Monday,
- He deposited £93 on Tuesday,
- He withdrew £339 on Wednesday
- He withdrew £652 on Thursday.

Write down Harry's new balance.



6. a



The temperature in GeorgeTown was recorded every night at midnight for a week. They were as follows :-

-3°C , 2°C , -6°C , 0°C , -2°C , -1°C , 3°C .

Find the **average** temperature for the week. (*The mean*).

b The temperature in AbelTown each night last week was :-

-2°C , 1°C , -3°C , -1°C , -4°C , 4°C , 5°C .

Which town, on average, was the **colder** of the two ?



Coordinates

1. From the coordinate diagram :-

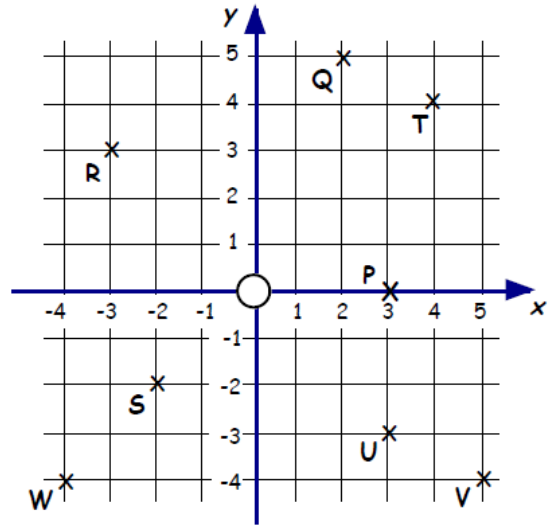
a Write down the coordinates of the points :-

(i) Q (ii) R (iii) W (iv) V.

b Which points have the same **x coordinate** ?

c Which points have the same **y coordinate** ?

d Which points have the same **x and y coordinate** ?



2. Draw a set of axes similar to question 1, but make both axes **-7 to 7**.

a Plot the following points and join them up in order to reveal a **2D shape**.

$P(1, 4) \rightarrow Q(6, 2) \rightarrow R(4, -5) \rightarrow S(-2, -5) \rightarrow T(-4, 2) \rightarrow P(1, 4)$.

b What is the name of the shape you have just formed ?

3. Draw another set of axes (**-7 to 7 on both scales**).

a Plot the points $A(-1, 7)$, $B(-5, 2)$ and $C(3, -2)$.

b Plot a 4th point (D) so that figure ABCD is a **parallelogram** and write down D's coordinates.

4. Copy the set of axes shown opposite.

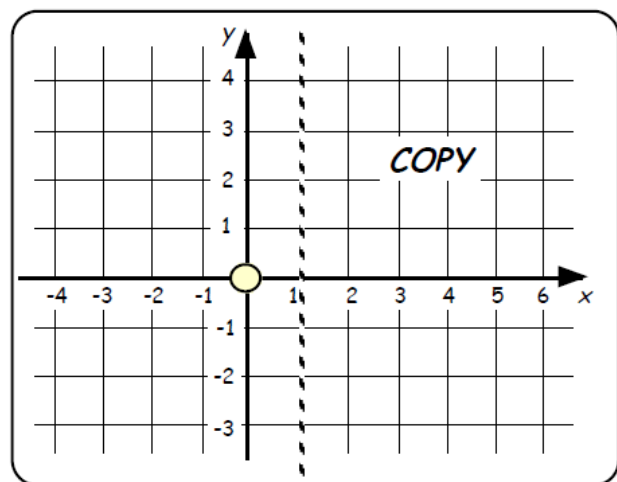
a Plot the points $K(-1, 2)$, $L(-1, 3)$ and $M(-4, 3)$.

b Plot a 4th point (N) so that KLMN is a **rectangle**.

c Reflect KLMN in the **x axis**, showing its new position in your diagram.

d Now give your new rectangle a reflection over the dotted line, showing its newest position on your diagram.

e After both reflections, what is the **new** coordinates of the point which was originally $L(-1, 3)$?



Algebra

1. Copy each of the following and then give a simplified answer below each one :-

- | | | |
|---------------------|-------------------|--------------------|
| (a) $2x + 5x$ | (b) $9x - 4x$ | (c) $6x + x$ |
| (d) $4x - x$ | (e) $6x + 5x + x$ | (f) $4x + 6x - x$ |
| (g) $15p - 7p + 4p$ | (h) $f + f - f$ | (i) $12q - 5q - q$ |

2. Copy each of the following and then give a simplified answer below each one :-

- | | | |
|-------------------------|--------------------------------|-------------------------------|
| (a) $4x + 6x + 3x - 8x$ | (b) $6y - y + 4y - 7y$ | (c) $3x + 2 + 7x$ |
| (d) $3p + 5 + p + 3$ | (e) $2y + 4 - y - 4$ | (f) $3p + 2s + 8p + 9s$ |
| (g) $8x + z - x + 9z$ | (h) $7p + q + 3p + q + p + 4q$ | (i) $2p^2 + 2q^2 - p^2 - q^2$ |

3. Copy each of the following and simplify :-

- | | | |
|-------------------|--------------------|--------------------|
| (a) $6 \times a$ | (b) $7 \times p$ | (c) $g \times 8$ |
| (d) $w \times y$ | (e) $c \times c$ | (f) $5a \times b$ |
| (g) $4k \times k$ | (h) $4p \times 5q$ | (i) $3y \times 7y$ |

4. Find the value of x by solving these equations :-

- | | | |
|-------------------|------------------|------------------|
| (a) $x + 2 = 5$ | (b) $x + 8 = 10$ | (c) $x + 5 = 12$ |
| (d) $x + 12 = 13$ | (e) $x - 1 = 5$ | (f) $x - 2 = 20$ |

5. Find the value of x , given :-

- | | | |
|---------------|---------------|---------------|
| (a) $3x = 18$ | (b) $4x = 12$ | (c) $5x = 50$ |
| (d) $9x = 45$ | (e) $6x = 42$ | (f) $2x = 11$ |

6. Find the value of each letter by solving these equations :-

Set down your working carefully.

- | | | |
|-------------------|-------------------|--------------------|
| (a) $2s + 3 = 5$ | (b) $4d + 3 = 11$ | (c) $3f + 1 = 13$ |
| (d) $5w + 3 = 43$ | (e) $2e - 1 = 9$ | (f) $6g - 3 = 15$ |
| (g) $7g - 2 = 19$ | (h) $7b - 5 = 2$ | (i) $10f - 5 = 15$ |

7. Solve these inequalities, leaving your answers like :- $x > 3$.
(Show all your working carefully)

- | | | |
|-------------------|-------------------|----------------------|
| (a) $x + 2 > 7$ | (b) $x + 5 > 12$ | (c) $x + 3 \leq 9$ |
| (d) $4x < 24$ | (e) $5x > 45$ | (f) $2x \leq 11$ |
| (g) $2x + 3 > 13$ | (h) $3x - 5 < 10$ | (i) $4x + 7 \geq 17$ |

Time

1. Change the following 12 hour clock times to 24 hour clock times :-

| | | |
|--------------|--------------|--------------|
| (a) 2:15 am | (b) 4:20 am | (c) 6 am |
| (d) 5:20 pm | (e) 1:45 pm | (f) 7 pm |
| (g) 6:25 am | (h) 9:50 pm | (i) 1:15 am |
| (j) 10:35 am | (k) midnight | (l) 12:20 am |

Remember :-

0630 → 6:30 am

1745 → 5:45 pm

2. Change the following 24 hour clock times to 12 hour clock times :-

| | | |
|----------|----------|----------|
| (a) 0430 | (b) 1040 | (c) 0704 |
| (d) 1450 | (e) 1735 | (f) 2050 |
| (g) 0150 | (h) 2145 | (i) 2205 |
| (j) 1902 | (k) 0000 | (l) 0555 |

3. How long is it from :-

| | |
|-------------------------|--------------------------|
| (a) 2:45 pm to 5:45 pm | (b) 4 am to 8:30 am |
| (c) midnight to 4:30 am | (d) 7:55 pm to 9:15 pm |
| (e) 3:40 am to 5:10 am | (f) 4:10 am to 9:35 am ? |

4. A show started at 7:35 pm and went on till 10:15 pm.
For how long had the show lasted ?

I boarded a train at 11:55 am and my journey lasted for 2 hours and 35 minutes.
At what time did I reach my destination ?

5. My flight to Athens left London Heathrow Airport at 2250 on Friday night.
I arrived at Athens Airport at 0315 on Saturday morning (British time).

How long had my flight taken ?

Time

6. Shown is part of the bus timetable from Reully to Pembrose.

| | <i>Reully → Morth → Caber → Abbey → Pembrose</i> | | | | |
|----------|--|------|------|------|------|
| 0945 Bus | 0945 | 1020 | 1155 | 1225 | 1320 |
| 1415 Bus | 1415 | | 1625 | 1655 | |

- (a) How long does the 0945 bus take to travel from :-
 (i) Reully to Caber ? (ii) Caber to Abbey ? (iii) Abbey to Penbrose ?
- (b) Assuming that the 1415 bus travels at the same speed as the 0945 bus,
 when would it be expected to arrive at :-
 (i) Morth ? (ii) Pembrose ?

Fractions and Percentages



1. Change each percentage to a decimal and then to a fraction in its simplest form :-

- | | | | | | |
|---|-------------------|---|-----|---|--------|
| a | 75% | b | 35% | c | 5% |
| d | $66\frac{2}{3}\%$ | e | 43% | f | 12.5%. |

2. Change each of the following into a percentage :-

- | | | | | | |
|---|----------------|---|---------------|---|-------------------|
| a | 0.63 | b | 0.2 | c | 0.005 |
| d | $\frac{7}{10}$ | e | $\frac{4}{5}$ | f | $\frac{11}{20}$. |

3. Find :-

- | | | | | | |
|---|--------------------------|---|------------------------------|---|-----------------|
| a | $\frac{3}{10}$ of 240 kg | b | 0.8 of 120 cm | c | 3% of £1200 |
| d | 75% of £460 | e | $12\frac{1}{2}\%$ of 48.8 km | f | 93% of 2000 mm. |

4. a Jake earned £280 a week as a joiner.

He then got a 10% pay rise.


How much was his pay rise ?

b A joiner has a plank of wood 1400 cm long.

He cuts off three sevenths of the wood.

What length of wood did he cut off ?



c  The cost of a dress in a shop was £80.
A sale gave a 25% **discount** on the dress.

How much is the dress in the sale ?

d A pair of shoes are priced at £140.
The manager **increases** the price by 5%.

How much do the shoes cost now ?



5. Peter sets out on a journey of 200 km.

He drives 85% of his journey and stops.

How many kilometres does he still have to travel ?



Fractions and Percentages



6. Find :-

a 35% of £360

b $\frac{7}{11}$ of \$1375

c 7% of 7 km

d $\frac{1}{2}\%$ of £2

e $87\frac{1}{2}\%$ of £10

f 25% of 30% of 600.

7. a



Katy earns £8 an hour as a cleaner.

She gets a pay rise of 6%.

How much will she **now** get for working 25 hours ?

b

Katy buys a large bottle cleaning fluid which contains 4200 ml.

A new bottle contains 22% **more**.

How many ml does the new bottle contain ?

8. a Caitlin's boutique buys shoes at £80 a pair. Caitlin sells them at a **profit** of 40%.

How much profit does she make if she sells 20 pairs of shoes ?

b 15% of the milk delivered to a superstore is thrown out **every week** as wastage.

How much milk is thrown out each week, given that 120 litres are delivered **every day** ?

9. a



Leila buys an 8 metre length of material to make curtains.

She uses 95% of the material.

How much material is left over ?

b

The curtain material costs £17 per metre from "FabricShop".

"CurtainStore" sells the same material 6% cheaper.

How much would Leila save on her 8 metres at "CurtainStore" ?

10. Gavin earns £18 000 a year as a salesperson.

Bethany earns three eighths **more** than Gavin.

Tom earns 4.5% **less** than Gavin.

How much more does Bethany earn than Tom ?



11.



A new car costs £15 000 from *Kevins Cars*.

It can be bought by making 30 monthly payments of £500.

Arnies Cars has a "**special offer**" and is advertised as shown.

Comment on *Arnies "special offer"*.

Arnie's Special Deal

Best offer around !

Pay 10% deposit then **ONLY**
£460 for 30 months.

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Level 3 – Unit 2

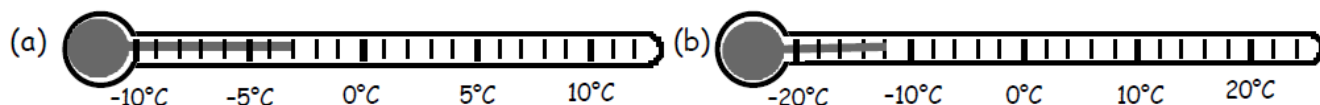
Revise and Review

- Negative Numbers
- Coordinates
- Algebra
- Time
- Fractions and Percentages

This section provides further examples that may be used to revise prior to the Unit 2 Test or for consolidation and review as required on completion of the unit.

Negative Numbers

1. Write the temperature shown by each thermometer.



2. Yesterday the temperature was 5°C .
Last night the temperature dropped by 12°C . What was the new temperature?
3. Find (a) $7 + (-3)$ (b) $(-5) + 9$ (c) $(-3) + (-5)$ (d) $(-7) - 2$ (e) $(-15) - 5$

4. 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?

5. 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?

6. 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) $(-150) \div (-25)$ |

7. Calculate :-

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

8. Simplify :-

- | | | |
|------------------------------|------------------------------|----------------------------------|
| (a) $4a + (-2a)$ | (b) $32g - (-12g)$ | (c) $-5z - (-5z)$ |
| (d) $6b + 2c + (-5b) - (-c)$ | (e) $7h + (-3k) - 2k - (-h)$ | (f) $x + (-1)^2 + (-x) + (-1)^7$ |

Coordinates

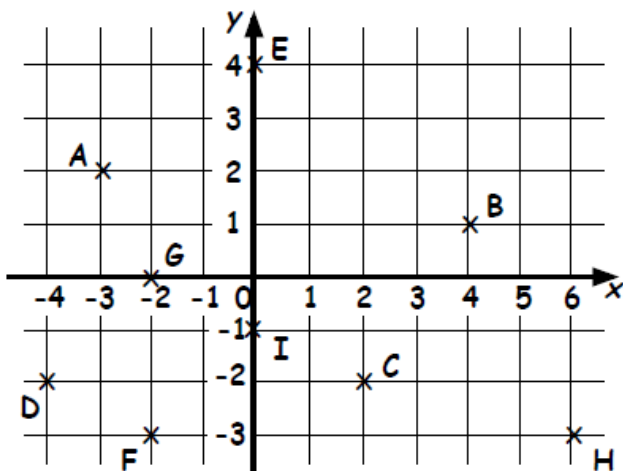
Exercise 5

1. Look at this coordinate diagram.

The coordinates of A are

$$A(-3, 2)$$

Write down the coordinates of the other 8 points.

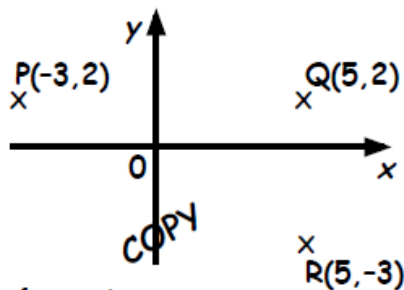


2. Draw a large set of axes (-10 to 10 on both scales).

Plot each set of points, join them up and state what shape each is :-

- (a) $A(3, 3)$ $B(5, 4)$ $C(7, 3)$ $D(5, -2)$. (b) $E(-7, 5)$ $F(-5, 8)$ $G(2, 8)$ $H(0, 5)$.
 (c) $I(-10, 3)$ $J(-8, 3)$ $K(-9, -3)$. (d) $L(1, -5)$ $M(-4, -4)$ $N(-5, 1)$ $O(0, 0)$.
 (e) $P(4, -5)$ $Q(6, -7)$ $R(5, -9)$ $S(3, -9)$ $T(2, -7)$ $P(4, -5)$.
 (f) $U(-8, -3)$ $V(-6, -3)$ $W(-5, -5)$ $X(-6, -7)$ $Y(-8, -7)$ $Z(-9, -5)$ $U(-8, -3)$.

3. (a) Copy this diagram and plot the three points $P(-3, 2)$, $Q(5, 2)$ and $R(5, -3)$.
 (b) Try to find a 4th point, (call it S) such that PQRS is a rectangle. Show S on your diagram, and write down its coordinates.



4. (a) Draw a set of axes, (-6 to 6 on both scales) and plot the four points $A(2, 1)$, $B(3, 5)$, $C(5, 5)$, $D(6, 1)$.
 (b) Join the four points and state which type of shape is formed.
 (c) "Flip" each of the four points over the x-axis to form a new four-sided shape. (This is called "**REFLECTING**" the shape).
 (d) Write down the coordinates of the four corners of this new reflected shape.

5. Draw a set of axes, (-5 to 5 on both scales). Join each of these sets of points with lines :-

| | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|
| $(2, 3)$ to $(4, 3)$ | $(1, 0)$ to $(1, -2)$ | $(-2, 0)$ to $(-4, 0)$ | $(-1, -3)$ to $(-1, -5)$ |
| $(-1, 2)$ to $(1, 2)$ | $(-3, 1)$ to $(-3, 3)$ | $(-1, -5)$ to $(-3, -5)$ | $(2, 1)$ to $(2, 3)$ |
| $(2, 0)$ to $(3, -1)$ | $(0, -4)$ to $(2, -3)$ | $(-1, 3)$ to $(-1, 1)$ | $(3, -1)$ to $(3, -2)$ |
| $(-3, -3)$ to $(-3, -5)$ | $(-1, 0)$ to $(-1, -2)$ | $(2, 2)$ to $(4, 2)$ | $(0, -3)$ to $(0, -5)$ |
| $(-1, 0)$ to $(1, 0)$ | $(-4, -2)$ to $(-3, -2)$ | $(-1, 3)$ to $(1, 3)$ | $(-1, -1)$ to $(1, -1)$ |
| $(0, -4)$ to $(2, -5)$ | $(-1, 1)$ to $(1, 1)$ | $(-3, 0)$ to $(-3, -2)$ | $(2, 1)$ to $(4, 1)$ |
| $(4, 0)$ to $(3, -1)$ | $(-3, -3)$ to $(-1, -3)$ | $(-4, 3)$ to $(-2, 3)$ | |

What message is produced ?

6. (a) Draw a set of axes from -5 to 5 on both axes.
 (b) Plot the points $A(3, 1)$, $B(-3, 1)$ and $C(-3, -3)$.
 (c) Plot and write the coordinate of a 4th point (call it D), such that ABCD is a rectangle.
 (d) Reflect the rectangle over the y axis and write down the coordinates of its vertices.

Algebra

1. Simplify :-

(a) $8x + 4x$

(b) $6y - 2y$

(c) $5k + 2k - 4k$

(d) $8d - 7d$

(e) $w + 3w - 2w$

(f) $4h^2 + 5h^2 - 3h^2$

2. Write the unknown number :-

(a) $5 \rightarrow \times 3 \rightarrow + 6 \rightarrow ?$

(b)

$8 \rightarrow \div 2 \rightarrow - 5 \rightarrow ?$

(c) $? \rightarrow \times 6 \rightarrow + 1 \rightarrow 31$

(d)

$? \rightarrow \div 3 \rightarrow + (-1) \rightarrow 3$

3. If $s = 2$, $t = 3$, $u = 4$ and $v = 5$ find :-

(a) $3s + 2t + u - 2v$

(b) $stu - 5v$

(c) $v^2 + u^2 - (st)^2$

4. Solve :-

(a) $x + 6 = 8$

(b) $y - 7 = 9$

(c) $2x + 1 = 11$

(d) $5h - 7 = 43$

(e) $\frac{1}{2}k = 16$

(f) $\frac{1}{5}y + 1 = 3$

5. Solve :-

(a) $x + 4 > 10$

(b) $y - 1 < 9$

(c) $3x \leq 15$

(d) $2y \leq 13$

(e) $3k - 10 \geq 0$

(f) $\frac{1}{2}w + 1 \geq 5$

Time

1. Write the following in 24 hour time :-

(a) 9:20 am

(b) 4:50 pm

(c) 11:05 pm

(d) 6:15 pm

2. Write the following in 12 hour time :-

(a) 0110

(b) 1715

(c) 2310

(d) 0001

3. A train left the station at 1105 and arrived at its destination at 1750. How long was the journey ?

4. A paper round started at 6:25 am and took 1 hour 50 mins. What time did the round finish ?

5. Shown is a train timetable

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

| 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 |



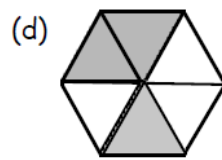
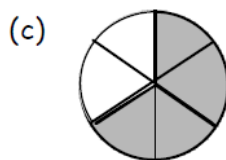
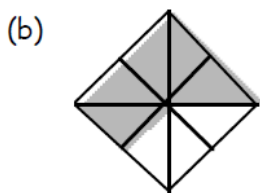
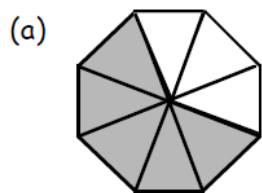
(a) How long does it take the first train from Garrowhill to Airdrie ?

(b) The last train takes 16 minutes from Glasgow to Airdrie. What time does the train leave ?

(c) What time will the 1753 express from Glasgow arrive at Airdrie ? (Look at the 1416 express)

Fractions and Percentages

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



2. 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) $\frac{27}{126}$

3. 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

4. Write these as fractions in their simplest form :-

(a) 50%

(b) 25%

(c) 64%

(d) 75%

(e) 20%

(f) $66\frac{2}{3}\%$

(g) $33\frac{1}{3}\%$

(h) 12.5%

5. Change these fractions into percentages :-

(a) $\frac{7}{10}$

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

(c) $\frac{1}{3}$

(d) $\frac{17}{20}$

(e) $\frac{24}{40}$

(f) $\frac{20}{30}$

(g) $\frac{225}{1000}$

(h) $\frac{3}{8}$

6. Calculate :-

(a) 20% of £75

(b) 65% of \$840

(c) $12\frac{1}{2}\%$ of 808 kg

7. Kris had £120, ($\frac{3}{5}$ of his original holiday money). How much did Kris start with?

8. Find without a calculator :-

(a) 50% of £9

(b) $33\frac{1}{3}\%$ of 360 metres

(c) 80% of 90 €

(d) 25% of 300p

(e) 60% of 240 p

(f) $66\frac{2}{3}\%$ of 121 kg

(g) 70% of 520 cm

(h) 75% of 9600 kg

(i) 75% of £440

(j) 30% of 3100 km

(k) 75% of £5

(l) $66\frac{2}{3}\%$ of 1.2 kg

Answers

Negative Numbers

1. a -3°C b -12°C
2. -7°C
3. a 4 b 4 c -8 d -9
e -20
4. -12°C
5. 43°
6. a 2 b -2 c -9 d -5
e 6 f -78 g -3 h 6
i 16 j -1 k -6 l -25
m -32 n 30 o 120 p -7
q -9 r -4 s 5 t 6
7. a 18 b -4 c 24
8. a $2a$ b $44g$ c 0
d $b+3c$ e $8h-5k$ f 0

Coordinates

1. B(4,1) C(2,-2) D(-4,-2) E(0,4)
F(-2,-3) G(-2,0) H(6,-3) I(0,-1)
2. a. kite b. parallelogram
c. line d. rhombus
e. pentagon f. hexagon
3. a. See diagram b. S(-3,-3)
4. a. See diagram b. trapezium
c. See diagram
d. (2,-1) (3,-5) (5,-5) (6,-1)
5. TEEJAY OK
6. . a/b see diagram c D(3,-3)
d A'(-3,-1) B'(2,1) C'(2,-3) D'(-3,-3)

Answers

Algebra

1. a $12x$ b $4y$ c $3k$ d d
e $2w$ f $6h^2$
2. a 21 b -1 c 5 d 12
3. a 6 b -1 c 5
4. a $x = 2$ b $y = 16$ c $x = 5$ d $h = 10$
e $k = 32$ f $y = 10$
5. a $x > 6$ b $y < 10$ c $x \leq 5$
d $y \leq \frac{13}{2}$ e $k \geq 4$ f $w \geq 8$

Time

1. a 0920 b 1650 c 2305 d 1815
2. a 1·10 am b 5·15 pm c 11·10 pm d 12·01 am
3. 6 hrs 45 mins
4. 8·15 am
5. a 8 mins b 2256 c 1810

Fractions and Percentages

1. a $\frac{5}{8}$ b $\frac{5}{8}$ c $\frac{4}{6} (\frac{2}{3})$ d $\frac{1}{2}$
2. a $\frac{1}{2}$ b $\frac{1}{4}$ c $\frac{1}{3}$ d $\frac{1}{8}$
e $\frac{2}{13}$ f $\frac{1}{14}$ g $\frac{1}{25}$ h $\frac{3}{14}$
3. a 22 b 36 c 24 d 60
4. a $\frac{1}{2}$ b $\frac{1}{4}$ c $\frac{16}{25}$ d $\frac{3}{4}$
e $\frac{1}{5}$ f $\frac{2}{3}$ g $\frac{1}{3}$ h $\frac{1}{8}$
5. a 70% b 40% c $33\frac{1}{3}\%$ d 85%
e 60% f 66% g $22\frac{1}{2}\%$ h $37\frac{1}{2}\%$
6. a £15 b \$36 c 101 kg
7. £200
8. a £4·50 b 120 m c 72€ d 75p
e 144p f 80 kg g 364 cm h 7200 kg
i £330 j 930 km k £3·75 l 0·8 kg