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S3 Foundation Homework 1

Name:

Class:

Grade: Green / Amber / Red



Q1. Calculate.

(a) $363 + 8 =$

(b) $343 - 5 =$

(c) $4 \times 7 =$

(d) $210 - 20 =$

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(e) $56 \div 7 =$

(f) $6 \times 6 =$

(c) $324 - 18 =$

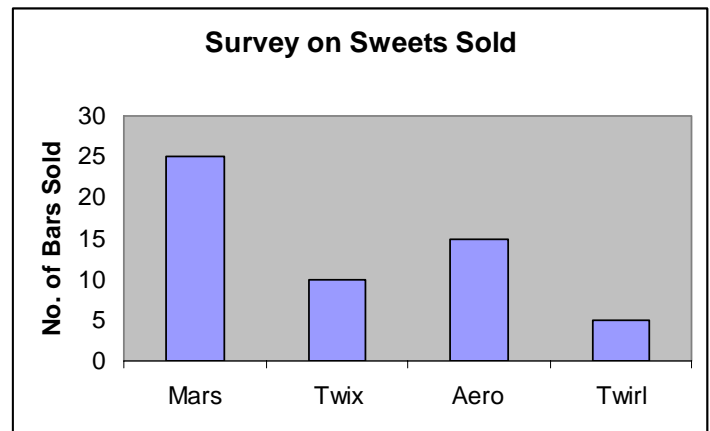
(d) $6 \overline{)96}$

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Q2. (a) How many bars of Aero were sold?

(b) How many Mars bars were sold?

(c) Which bar of chocolate was most popular?



(d) Which chocolate bar was least popular?

(e) How chocolate bars were sold altogether?

Q3. Five pupils in a class scored the following test marks.

78%, 85%, 60%, 97%, 80%

Calculate the average test mark. (Show your working)

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S3 Foundation Homework 2

Name:

Class:

Grade: Green / Amber / Red



Q1. Calculate using BODMAS rules

(a) $2+3\times 5$

(b) $12+6\div 3$

(c) $24\div 6+3$

(d) $(15+5)\div 4$

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Q2. Round each number to the nearest 10.

(a) 25

(b) 124

(c) 1728

(d) 14567

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Q3. Round each number to the nearest whole number.

(a) 20.5

(b) 124.29

(c) 178.82

(d) 14.54

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Q4. Calculate the following

(a) 10×23

(b) 15.70×100

(c) $24700\div 100$

(d) $67.0\div 10$

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Q5. Calculate the following

(a) $1.45+4.56$

(b) $15.70-3.8$

(c) 6.3×4

(d) $8\overline{)288}$

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S3 Foundation Homework 3

Name:

Class:

Grade: Green / Amber / Red



Q1. Calculate the following: Show all your working

(a) $7.4 + 9.8$

(b) $0.5 + 2.75$

(c) $18.7 + 5.87$

(d) $36.34 - 21.8$

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(e) 15.6×6

(f) $37.5 \div 5$

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Q2. Calculate the following: Show your working (HINT: BODMAS)

(a) $8 + 12 \div 4$

(b) $9 \times (8 - 3)$

(c) $2 \times 6 - 1$

(d) $2 \times (6 - 1)$

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(e) $(6 + 9) \div 3$

(f) $\frac{1}{3} \text{ of } (9 - 3)$

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Q3. List these numbers in order, putting the smallest first:

4.1, 1.9, 5.9, 2.3, 3.8 (HINT: think of the number line)

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Q4. List these numbers in order, putting the largest first:

12.78, 13.67, 12.0, 13.99, 12.71, 13.01

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S3 Foundation Homework 4

Name:

Class:

Grade: Green / Amber / Red



Q1. Calculate

(a) $8.45 \times 10 =$

(b) $4.7 \times 100 =$

(c) $0.025 \times 100 =$

(d) $45.6 \div 10 =$

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(e) $7.8 \div 100 =$

(f) $3 \div 100 =$

(g) $99 \times 4 =$

(h) $202 - 77 =$

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Q2. Round the following to the nearest whole number.

(a) 2.4

(b) 16.7

(c) 100.8

(d) 20.2

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Q3. Round the following to the nearest 10.

(a) 67

(b) 341

(c) 509

(d) 195

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Q4. Round the following to the nearest 100.

(a) 358

(b) 76

(c) 2133

(d) 4050

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S3 Foundation Homework 5



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate

(a) $64 + 382 - 169$

(b) $64.18 - 12.4$

(c) 8.7×100

(d) $563.8 \div 10$

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(e) $\frac{1}{2}$ of $12 - 4$

(f) $24 + 8 \times 3$

(g) 2.8×7

(h) $41.02 \div 7$

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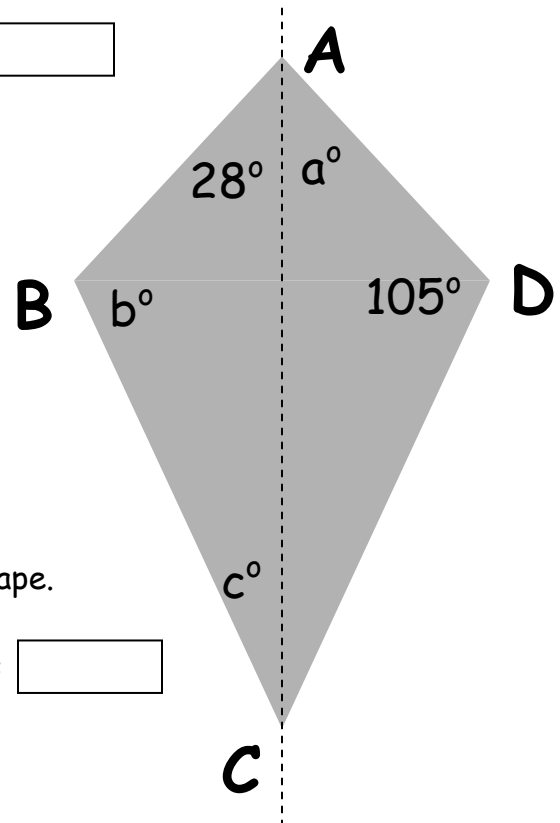
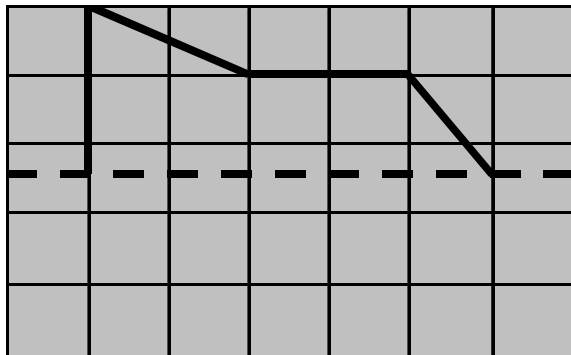
Q2. Round the following to the nearest whole number.

(a) Round 529 to the nearest 10.

(b) Round 7603 to the nearest 100.

(c) Round 301.7 to the nearest 10.

Q3. Complete the other half of this shape.



Q4. Find the value of a, b and c in the kite shape.

a =

b =

c =



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S3 Foundation Homework 6



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate

(a) 5.6×100

(b) 6.13×3

(c) $9.2 - 6.8$

(d) $8.5 - 1.23$

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(e) $\frac{1}{2}$ of 27

(f) $\frac{1}{5}$ of 35

(g) $\frac{2}{5}$ of 15

(h) $\frac{3}{4}$ of 28

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Q2. How many minutes in:

(a) 1 hour (b) 4 hours (c) $\frac{1}{2}$ hour (d) $\frac{3}{4}$ hour

Q3. (a) How many days altogether in August and September.

(b) April, May and June.

(c) January, February and March of a leap year.

Q4. Write the following dates in words.

(a) 12/12/99

(b) 09/06/64

(c) 30/11/01



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S3 Foundation Homework 7



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate

(a) 4.3×4

(b) $23 + 47 + 98$

(c) $17.6 - 8.9$

(d) $72 \div 9$

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(e) $\frac{5}{7}$ of 35

(f) $\frac{2}{9}$ of 63

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Q2. Complete the table:

| Date in Full | Date in Number Format |
|-----------------------------|-----------------------|
| 5 th June 1946 | |
| | 27/09/93 |
| 13 th April 1999 | |
| | 28/02/00 |

Q3. Write in 24-hour time.

(a) 5.30 a.m.

(b) 4 p.m.

(c) 7.55 p.m.

(d) 12 noon

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Q4. Write in 12-hour time.

(a) 14 40 hrs

(b) 07 45 hrs

(c) 21.00 hrs

(d) 00 00 hrs

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Q5. Holidays start on the 28th June and finish on 17th August. How many days is this?

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S3 Foundation Homework 8



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) 18.4×3

(b) $5 + 3 \times 8$

(c) 6.4×100

(d) $236 - 178$

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(e) $\frac{1}{8}$ of 152

(f) £ 3.30×4

(g) $\frac{3}{4}$ of $16 + 8$

(h) $520 \div 4$

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Q2. Write in 24-hour format:

(i) 3.15 pm

(ii) 9.45 am

(iii) 11.42 am

(b) Write in 12-hour format:

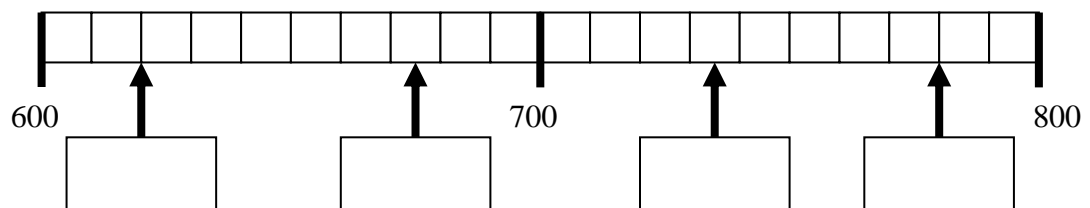
(i) 05.40

(ii) 14:05

(iii) 01.30

Q3. A train leaves Glasgow at 08.35 and arrives in York at 12.30. How long was the journey?

Q4. What numbers are the arrows pointing at?





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S3 Foundation Homework 9



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) $38.5 + 6.4$

(b) $15.7 - 6.8$

(c) $10.05 + 5$

(d) $236 - 178$

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(e) 2.36×5

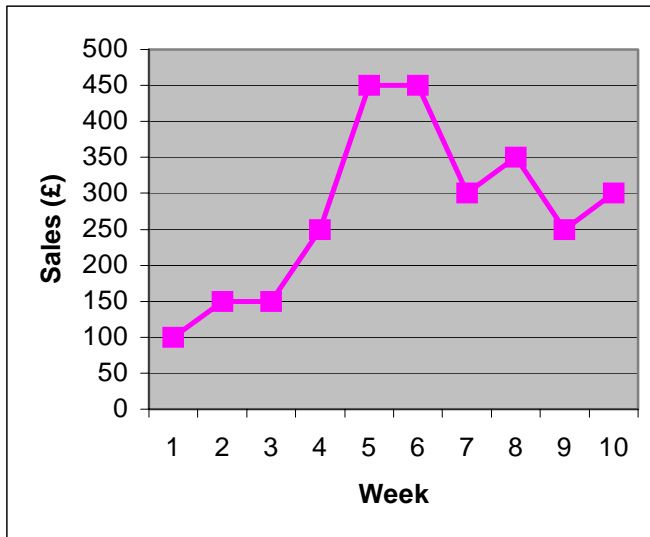
(f) $6 + 2 \times 5$

(g) $20 - 3 \times 3$

(h) $4 \times 2 + 10$

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Q2. A music shop kept a record of their sales of CDs over a ten week period. The line graph shows their figures:



(a) For how many weeks were the sales more than £250?

(b) What were their sales in

(i) week 2 (ii) week 8

(c) In which two weeks were their best sales?

(d) How many more cds did they sell in week 7 than week 3?

Q3. How many seconds in

(a) 2minutes (b) 8minutes (c) 10minutes

Q4. Change to 24 hr format

(a) 6.30am (b) 10.05am (c) 10.50pm



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S3 Foundation Homework 10



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) $184 + 276$

(b) $302 - 168$

(c) 47×6

(d) $\frac{1}{3}$ of 48

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(e) $11.4 + 0.6 + 9$

(f) $26 - 6 \times 2$

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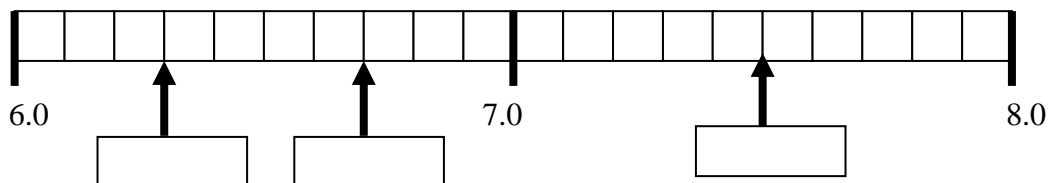
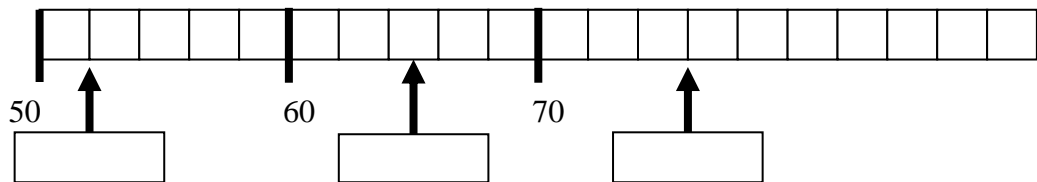
Q2. Find 2 numbers, which multiply to give 24 and add to give 11. Show how you got your answer.

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Q3. At a concert in the SECC, McFly played from 7.15pm until 8.15pm and then from 8.50pm until 10.05pm. How long did they play altogether?

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Q4. What numbers are the arrows pointing at?



Q5. Draw a letter from the alphabet that has

(a) 1

(b) 2

(c) more than 2 lines of symmetry.

Mark the lines of symmetry on your drawing.

(USE THE BACK OF THE SHEET TO DRAW LETTERS)



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S3 Foundation Homework 11

Name: _____

Class: _____

Grade: Green / Amber / Red



Q1. Calculate (Show your working)

(a) $296 + 45$

(b) $123 - 55$

(c) $300 - 268$

(d) 6.17×44

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(e) $28.5 \div 5$

(f) $1000 - 667$

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Q2. Copy the table by finding the rule and the 10th term

| <u>Pattern</u> | <u>Rule</u> | <u>10th term</u> |
|----------------------|-------------|-----------------------------|
| 1, 3, 5, 7, | | |
| 2, 4, 6, 8, | | |
| 3, 7, 11, 15, | | |
| 3, 5, 7, 9, | | |
| 1, 6, 11, 16, | | |
| 0, 4, 8, 12, | | |
| 3, 9, 15, 21, | | |
| 9, 18, 27, 36, | | |
| 7, 17, 27, 37, | | |
| 7, 11, 15, 19, | | |
| 5, 12, 19, 26, | | |

Q3. Which two numbers

(a) Add to give 16 and subtract to give 2.

(b) Multiply to give 24 and subtract to give 5.



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S3 Foundation Homework 12

Name: _____



Class: _____

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) $2.96 + 4.5$

(b) $223 - 56$

(c) 30.70×3

(d) 3.47×100

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(e) $28.7 \div 7$

(f) $1000 - 773$

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Q2. Which two numbers

(b) Add to give 10 and subtract to give 2.

(b) Multiply to give 12 and subtract to give 1.

Q3. Copy the table by finding the rule and the 8th term

| <u>Pattern</u> | <u>Rule</u> | <u>8th term</u> |
|--------------------|-------------|----------------------------|
| 1, 4, 7, 10, | | |
| 2, 5, 8, 11, | | |

Q4. I set off on my holidays to Blackpool at 8.15am and arrived at quarter to eleven in the morning. How long was my journey.
(Show your working)



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S3 Foundation Homework 13

Name: _____



Class: _____

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) $8.26 + 2 + 1.5$

(b) $875 - 56$

(c) 45.6×6

(d) $765 \div 100$

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(e) $72.8 \div 8$

(f) $990 - 378$

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Q2. Which two numbers

(c) Multiple to give 12 and subtract to give 4.

(b) Add to give 12 and divide to give 5.

Q3. Tidy up the expressions.

(a) $a + c + 2c + 3a + 5c$

(b) $b + e + 5b + 3e + 5b$

(c) $a^2 + 2c^2 + 3a + 5c^2 + 7a^2$

(d) $x^2 + y + 10y + 3x^2 + 5y^2$

Q4. Evaluate $b^2 - 9ac$ when $a = 3$ $b = 6$ $c = 1$



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S3 Foundation Homework 14

Name: _____



Class: _____

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) $423 + 288$

(b) $561 - 266$

(c) 37×8

(d) 7.99×6

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(e) $807 - 9$

(f) $\frac{1}{4}$ of 320

(g) $\text{£ } 1.59 \times 5$

(h) $5 \overline{)80}$

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Q2. Which two numbers

(a) Multiple to give 15 and subtract to give 2.

(b) Add to give 22 and subtract to give 9.

Q3. A television programme started at 1530hrs and finished at 1655hrs.
How long was the programme.

Q4 (a) At a pop concert there were 15,756 fans. Round this number to the nearest 100.

Q5. A taxi driver has to transport 30 people to a party. His taxi can only carry 5 people safely. How many trips must he make?



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S3 Foundation Homework 15

Name:

Class:

Grade: Green / Amber / Red



Q1. Calculate (Show your working)

(a) $543 + 386$

(b) $432 - 39$

(c) 23×7

(d) 4.65×4

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(e) $890 - 22$

(f) $\frac{1}{5}$ of 105

(g) £ 3.29×3

(h) $8 \overline{)848}$

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Q2. Tidy up the expressions.

(a) $y + 2x + 2y + 3x + 5x$

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(b) $h + h + 5g + 3h + 5g$

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(c) $e^2 + 2f^2 + 4e + 9f^2 + 7e^2$

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(d) $a^2 + 15b + 10b + 28a^2 + 11b^2$

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Q3. Evaluate $p^2 + 4pz$ when $p = 6$ $z = 2$

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S3 Foundation Homework 16

Name: _____

Class: _____

Grade: Green / Amber / Red



Q1. Calculate (Show your working)

(a) 16.4×4

(b) $10 \div 5 + 6 \times 9$

(c) 7.34×100

(d) $236 - 178$

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(e) $\frac{1}{6}$ of 216

(f) $\pounds 2.89 \times 4$

(g) $\frac{3}{4}$ of $24 + 8$

(h) $48.36 \div 4$

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Q2. Write in 24-hour format:

(i) 6.25 pm

(ii) 7.34 am

(iii) 11.59 am

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(b) Write in 12-hour format:

(i) 16.40

(ii) 13:25

(iii) 02.30

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Q3. Convert to a decimal

(a) $\frac{3}{4}$

(b) $\frac{1}{10}$

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

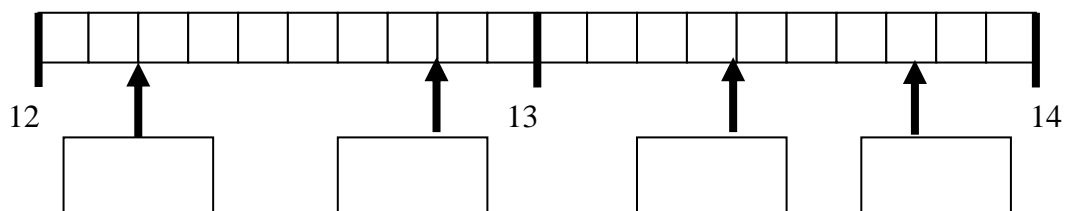
(d) $\frac{1}{5}$

(e) 40%

(f) 65%

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Q4. What numbers are the arrows pointing at?





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S3 Foundation Homework 17



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) 1.95×7

(b) $56 \div 7 + 5 \times 6$

(c) $657 \div 100$

(d) $702 - 21$

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(e) $\frac{2}{3}$ of 18

(f) $\pounds 2.89 \times 4$

(g) $\frac{3}{4}$ of $24 + 8$

(h) $48.36 \div 4$

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Q2. A film started at 7.35pm and finished at 22.05 hrs. How long was the film on for. (Show all you working)

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(b) Find two numbers that multiple to give 48 and subtract to give 2.

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Q3. Convert to a percentage

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

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

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

(d) $\frac{2}{10}$

(e) 0.5

(f) 0.25

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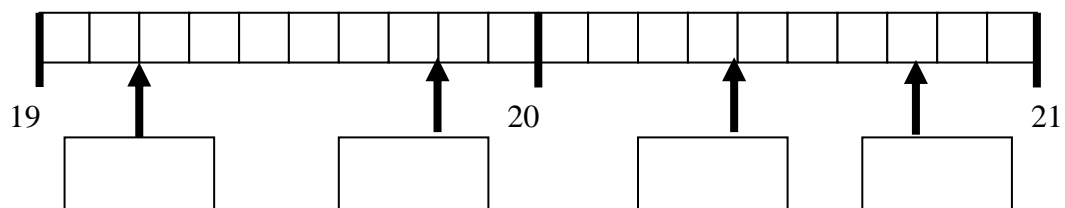
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Q4. What numbers are the arrows pointing at?



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S3 Foundation Homework 18

Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) 8.99×4

(b) $\frac{1}{3}$ of 936

(c) $56.9 \div 100$

(d) $904 - 29$

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(e) $\frac{5}{6}$ of 108

(f) £ 1.59×9

(g) $\frac{2}{3}$ of $42 - 28$

(h) $567.14 \div 7$

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Q2. Tidy-up the following

(a) $a + b + 4a + 6b + 3a$

(b) $d^2 + g + d + 4d^2 + 3g$

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Q3 Find two numbers that multiple to give 64 and subtract to give 30.

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Q4. Convert to a decimal

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

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

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

(d) $\frac{2}{10}$

(e) $\frac{1}{5}$

(f) $\frac{3}{5}$

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Q5. Find the rule for the following patterns.

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|--------|---|---|---|----|
| Tables | 1 | 2 | 3 | 4 |
| Chairs | 4 | 6 | 8 | 10 |

HINT

1. Find the difference
2. What do you Add / Sub To get answer



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S3 Foundation Homework 19



Name:

Class:

Grade: Green / Amber / Red

Q1. Calculate (Show your working)

(a) 5.49×6

(b) $\frac{1}{5}$ of 720

(c) 56.9×100

(d) $703 - 89$

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(e) $\frac{5}{9}$ of 108

(f) £ 0.59×8

(g) $\frac{2}{7}$ of $84 - 7$

(h) $56.72 \div 6$

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Q2. Tidy-up the following

(a) $5m + n^2 + 4m + 11n + 3m$

(b) $x^2 + x + 4y + 4x^2 + 3y$

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Q3 Find two numbers that multiple to give 34 and subtract to give 15.

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Q4. Convert to a decimal

(a) $\frac{1}{10}$

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

(c) $\frac{9}{10}$

(d) $\frac{10}{10}$

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

(f) $\frac{5}{10}$

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Q5. Find the rule for the following patterns.

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|--------|---|---|----|----|
| Tables | 1 | 2 | 3 | 4 |
| Chairs | 5 | 8 | 11 | 14 |

HINT

3. Find the difference
4. What do you Add / Sub To get answer