



S1 December Assessment Revision

Previous Revision

1. Find the duration between the following times:

a. 7.13am until 4.52am

b. 8.41pm until 11.57pm

b. 0904hrs until 1921hrs

d. 0625hrs until 1921hrs

2. Find the following:

a. $7 - 9$

b. $-20 + 4$

c. $13 + (-12)$

d. $-19 + (-2)$

e. $6 - 8 + 12$

d. $7 + (-10) - 8$

3. Round the following numbers to the nearest 10:

a. 487

b. 389

c. 6729

4. If $p = 3$, $q = 8$ and $r = 4$, evaluate the following:

a. $q - 2p + 5r$

b. $(pr)^2 - 4r$

c. $(r - p)^2 - 2q$

d. $pr^2 - pqr$

5. Simplify the following expressions:

a. $6e - 5r + 3 - 2r + 9e - 5$

b. $10 - 7y + 4p - 3y - 9p + 1$

c. $3r^2 - 5r + 7 - 2r^2 - 7r + 1$

d. $19w^3 - 3w^2 + w - 17w^2 + 4w^3 - 5w$

6. If $e = 2$, $f = 4$ and $g = 5$, evaluate the following:

a. $f - 2e$

b. $ef - g$

c. $eg^2 - fg$

7. Solve the following equations:

a. $e - 15 = 30$

b. $p + 8 = 7$



8. Round the following numbers to the nearest hundred:

a. 846

b. 6387

c. 12,693

9. Evaluate the following:

a. $17 - 2 \times 5$

b. $9 \times 4 + 3 \times 6$

c. $24 - 7 \times 6$

Fractions and Percentages

1. Simplify the following:

a. $\frac{4}{12}$

b. $\frac{25}{35}$

c. $\frac{90}{120}$

2. Convert the following into improper fractions:

a. $3\frac{1}{5}$

b. $6\frac{7}{8}$

c. $4\frac{7}{9}$

3. Write the following as mixed numbers:

a. $\frac{24}{5}$

b. $\frac{37}{4}$

c. $\frac{41}{6}$

4. Find the following:

a. $\frac{5}{7}$ of £6279

b. $\frac{8}{9}$ of £6786

c. $\frac{4}{5}$ of £4285

d. $\frac{3}{8}$ of £2136

5. William raises a total of £4208 for a charity expedition. If he spends $\frac{3}{8}$ of the money on buying supplies for a local community centre, how much will he be left with?

6. Write the following as fractions in their simplest form:

a. 10%

b. 35%

c. 64%

d. 78%



7. Find the following:

a. 25% of £416

b. 75% of £340

c. 20% of £760

8. Find the following:

a. 75% of £3136

b. 25% of £568

c. 30% of £260

d. 15% of £680

e. 12.5% of £440

f. 22.5% of £620

9. Write the following fraction as a percentage:

a. $\frac{1}{4}$

b. $\frac{2}{5}$

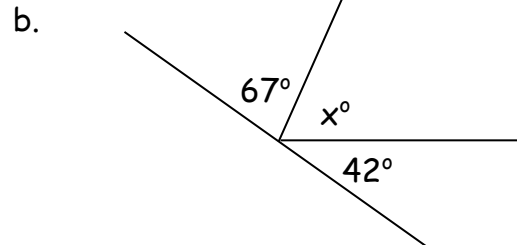
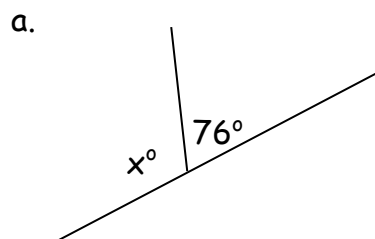
c. $\frac{24}{160}$

Angles

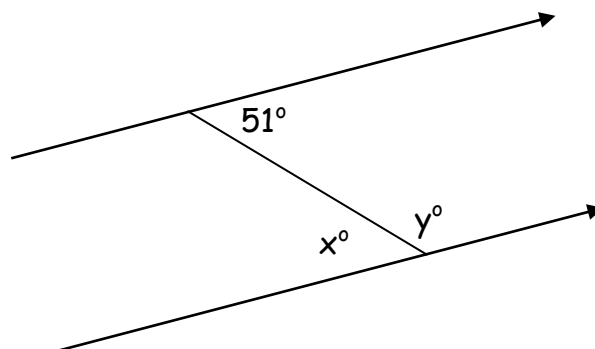
1. How many degrees are there in a straight line?

2. For angles to be complementary, what should they add up to?

3. Calculate the value of angles x° in the following diagrams:



4. Find angle x° and y° in the diagram below:



Decimals

1. Find the following:

a. 3.87×1000

b. 3856.87×10

c. 485.28×10000

d. 0.078×1000

2. Calculate:

a. 6.5×4

b. 12.84×7

c. 287.47×9

3. Find the following:

a. $4.98 + 12.47$

b. $19.8 - 12.5$

4. Round the following numbers to 1 decimal place:

a. 28.4628

b. 377.38456

c. 99.9999999

5. Find the following:

a. $8.3 + 5.12 + 42.908$

b. $271 - 56.37 + 7.041$

6. Round the following to 2 decimal places:

a. 47.287

b. 387.071

c. 58.0598

7. Calculate:

a. $32.7 + 3.32 \times 8$

b. $247.82 - 14.38 \times 5$