5. A tourist visited The Bahamas when the exchange rate was €1 Euro = $1.36 Bahamian. Upon arrival, she converted €640 into Bahamian dollars.

(a) Calculate the amount of Bahamian dollars received. [2]

At the end of her vacation she converted her remaining $102 Bahamian back to Euros.

(b) Calculate the amount of Euros received. [2]

5. Jan has a collection of marbles. One-third of the marbles are pink, three-eighths are yellow, one-quarter are blue and the remaining two marbles are white.

Calculate

(a) the fraction of marbles that are white, [3]

**Fraction of Non White Marbles**

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

**Fraction of White Marbles**

$$1 - \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

(b) the total number of marbles. [2]

5. A man's basic wage for a 40-hour week is $38.40 per hour.

(a) Calculate his weekly wage. [1]

Overtime is paid at time and a half.

(b) (i) Calculate his pay for one hour of overtime. [1]

(ii) Calculate his total wage for a week when he works 58 hours. [3]

**Wages for Over Time = $**

**Total Wages = $**

5. Mr. Ferguson earns $12.50 per hour for a 40-hour week as a construction worker. He is paid double time for any hours worked in excess of 40 hours.

Calculate

(a) his wage for a normal working week, [1]

(b) his hourly overtime rate of pay, [1]

(c) his wage for a week in which he works 48 hours, [3]

**Wages for Over Time = $**

**Total Wages = $**

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(d) the number of overtime hours for a week in which he earned \$800. [3]

**Wages for Over Time = \$**

**Over Time Hours =**

5. The interior angle of a regular polygon is 162°.

(a) Calculate the size of each exterior angle. [1]

(b) Calculate the number of sides of the polygon. [1]

5. A cruise ship leaves port A and travels 195.5 miles to port B in $5\frac{3}{4}$ hours.

(a) Calculate the average speed of the cruise ship. [2]

After leaving port B, the ship travels at a speed of 30 mph to port C.

It takes $2\frac{1}{2}$ hours for this part of the journey.

(b) Find the distance between port B and port C. [2]

(c) Calculate the average speed of the entire journey from port A to port C. [3]

**Total Distance Traveled =**

**Total Time Taken =**

**Average Speed =**

5. (a) Solve the inequality $15 - 3x \geq 8x + 7$. [2]

**Inequality after rearranging Constants and Variables**

**≥**

**Inequality after simplifying Constants and Variables**

**≥**

**Inequality after changing all signs**

**<**

**Simplified Inequality**

**<**

(b) Show the solution to (a) on a number line. [2]

(c) Give the solution set if $x$ is a natural number. [1]

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