Task 1 - Give it a go, and give it a go again

Give it a go and give it a go again respectively:

Question Number	Score	
Week 1		
Question 1	1 / 1	Review
Question 2	6 / 6	Review
Question 3	5 / 5	Review
Total	**12 / 12 (100%)**	

Click on a question number to see how your answers were marked and, where available, full solutions.

Question Number	Score	
Week 1		
Question 1	1 / 1	Review
Question 2	5 / 6	Review
Question 3	4 / 5	Review
Total	**10 / 12 (83%)**	

Performance Summary

Exam Name:	SIT190 - Week 1 - Quiz - Short
Session ID:	111267640418
Student's Name:	COWLISHAW, Ethan Del (edcowlishaw)
Exam Start:	Fri Mar 01 2024 19:15:46
Exam Stop:	Fri Mar 01 2024 19:19:19
Time Spent:	0:03:31

Performance Summary

Exam Name:	SIT190 - Week 1 - Quiz - Short
Session ID:	17686941057
Student's Name:	COWLISHAW, Ethan Del (edcowlishaw)
Exam Start:	Fri Mar 01 2024 19:44:55
Exam Stop:	Fri Mar 01 2024 19:50:00
Time Spent:	0:05:04

I also did them as moodle quizzes first. I am unsure of what it correct to submit. My next answers are based off of the moodle answers.

Attempt	State	Grade / 12.00	Review
1	Finished Submitted Friday, 1 March 2024, 5:56 PM	9.00	Review
2	Finished Submitted Friday, 1 March 2024, 6:20 PM	10.00	Review

1.3: I performed much stronger than I thought I would on the first give-it-a-go quiz. The only mistake I actually made was forgetting to remove an 'x' on the final question. The other questions I got wrong were due to the moodle rules being finnicky and hard to understand (I did exactly what it asked me to do and it still didn't accept it).
I intend to double-check every question with 'solve for x' to make sure I don't accidentally leave the x in.

1.4: I fixed my previous mistake and then made another silly one on an earlier question by rushing through too fast. I got the answer mostly correct, simply missed a 'y'.
I followed my strategy perfectly but forgot to think outside it. I was caught up trying to not make the same mistake that I went and made a sillier mistake. I must be more careful with rushing ahead.

Task 2 - Goal setting

1. The Luchas
2. Some goals of mine are to reach a moderate level of proficiency with mental arithmetic and to understand mathematical functions on a deeper level. I expect to not excel at this class but I do want to have a high standard at the work I do.
3. A knight is my best suit then.

4. A strength is that I can be extremely dedicated (read: stubborn) at achieving goals once I set my mind to it which will greatly assist me in staying motivated to improve.
5. I do not have a strong affinity for mathematics. I know I need to improve at it for future career goals so I intend to practice nearly every day at math problems and ask for help from the teacher for when I am truly stuck. Furthermore, I need to think about the problems rather than ignore what I don't know.

Task 3 - Algebra

(1) Use the rule a(b + c) = ab + ac to expand 7(x + 2)

$a(b+c) = ab + ac$

- $7(x+2) = 7x + 7 \times 2$
- $\rightarrow 7x + 14$

(2) Use the rule ab − ac = a(b − c) to factorise 7x − 28

$ab - ac = a(b-c)$

- $7x - 28 = 7(x-c)$
- $c = \frac{28}{7} = 4$
- $\rightarrow 7(x-4)$

(3) Simplify the following mathematical expressions:**

- **$\frac{4}{16} - \frac{30}{32}$
  - $\frac{4}{16} \times 2 = \frac{8}{32}$
  - $\frac{8}{32} - \frac{30}{32} = 8 - 30 = -22$
  - $\frac{-22}{32}$, $\div 2$
  - $\rightarrow \frac{-11}{16}$
- $\frac{7}{11} \div \frac{5}{3}$
  - Flip the second fraction to turn the equation into multiplication
  - $5\left(\frac{7}{11}\right) \times 11\left(\frac{3}{5}\right)$
  - $\frac{35}{55} \times \frac{33}{55} = \frac{1155}{3025}$
  - Since 55 is 'doubled', we can divide by it to get the numerator: $\div 55 = 21/55$

(4) Solve for x:

- $2x + 9 = 5$
  - Minus 9: $2x = 5 - 9 \rightarrow 2x = -4$
  - Divide by x's coefficient (2): $x = \frac{-4}{2}$
  - $x = -2$
- $6 - \frac{x}{2} = 6$
  - Minus 6: $-\frac{x}{2} = 6 - 6 \rightarrow -\frac{x}{2} = 0$
  - Times by -2: $x = 0 \times -2$
  - $x = 0$

(5) Evaluate the following expression $y = 12 - 5x$ when $x = -2$

$y = 12 - 5(-2)$

- $y = 12 - -10 \rightarrow y = 12 + 10$
- $y = 22$