

Initial Teacher Education – Practice Numeracy Assessment 1

Instructions:

Solve the following problems. You may show your thinking using numbers, words, pictures, and/or diagrams.
No calculators allowed.

1. John needs \$403 to buy a stereo. So far he has saved \$197. How much money does he still need?

Answer

2. Ana bought 5.3 metres of rope for skipping ropes, but only used 1.87 metres. How much rope was left?

Answer

3. If 27 packets each hold 35 felt pens, how many pens is that altogether?

Answer

4. Tama and Karen buy two pizzas. Tama eats $\frac{3}{4}$ of one pizza while Karen eats $\frac{1}{2}$ of the other one. How much pizza do they eat altogether?

Answer

5. If Ben got 24 out of a possible total of 30 marks, what percentage was that?

Answer

6. It takes 6 balls of wool to make 10 beanies. How many balls of wool does it take to make 15 beanies?

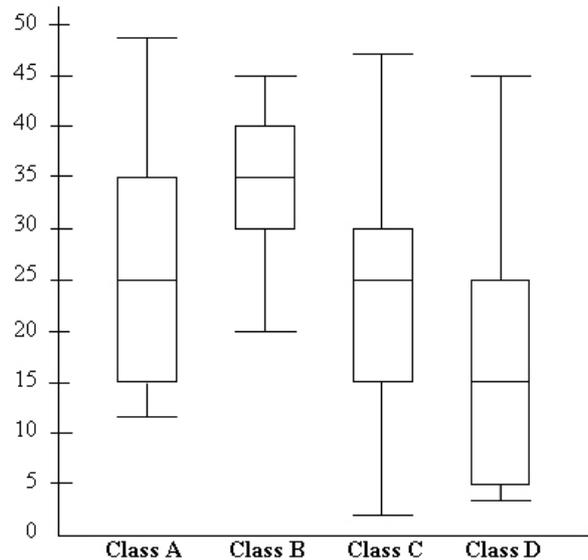
Answer

7. Four classes did the same social studies test. The box plots to the right show the marks the Students got.

- a. Which class had the student with...
- the **highest** mark? _____
 - The **lowest** mark? _____
- b. Which class had the **lowest median** mark?

- c. Which class had the **smallest range** of marks?

Box-and-Whisker Graph of Marks for Social Studies Test



8. The table shows the results of a Girls' Under-14 100-metre sprint final at a sports day.

Lane number	1	2	3	4	5	6	7	8
Finish time (seconds)	14.92	14.85	14.71	14.61	14.36	14.16	14.10	14.76

- a. Below are some statements about the results. Select 'True' or 'False' for each statement.

Statement	True	False
The winner of the race ran in Lane 1.	<input type="radio"/>	<input type="radio"/>
The competitor in Lane 3 was faster than the competitor in Lane 8.	<input type="radio"/>	<input type="radio"/>

- b. How were the times recorded? Circle your answer.

- A** to the nearest tenth of a second
B to the nearest hundredth of a second
C to the nearest thousandth of a second

9. In 2019 relief teachers were paid \$60.40 per hour, before tax. The rate of pay is also applied on a pro-rata basis (proportionally) for part of an hour.

A teacher begins a casual relief position at a school at 8:45am and finishes at 12:15pm on the same day.

a. How long did the teacher work for ?

b. How much will the teacher be paid, before tax?

10. A rectangular garden bed is built with the following dimensions:

- length: 2.4 m
- width: 200 cm
- depth: 70 cm

Which of these is closest to the volume of the soil needed to fill the garden bed?
Circle your answer.

- A** 1 cubic metre
- B** 3 cubic metres
- C** 6 cubic metres
- D** 3 500 cubic metres
- E** 35 000 cubic metres

Answers:

1. \$ 206

2. 3.43m

3. 945

4. $1\frac{1}{4}$ or $\frac{5}{4}$

5. 80%

6. 9 balls

7. a(i) Class A a(ii) Class C b) Class D c) Class B

8. a) False True b) B

9. a) 3.5 hours or $3\frac{1}{2}$ hours or 210 minutes
b) \$211.40

10. B