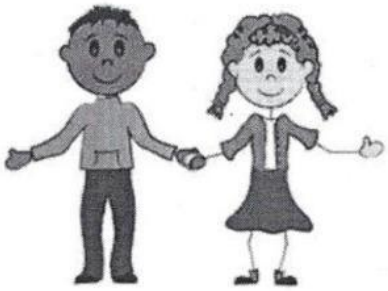
12. John is 189 cm tall and Sue is 150 cm tall.



(a) How much taller is John than Sue?

Answer: _____ [2]

(b) Express your answer from (a) in metres.

Answer: _____ [2]

12. (a) List the next prime number after 7. Answer: _____ [1]

(b) List the first two multiples of 8. Answer: _____ [2]

(c) Prime factorize

(i) 16

Answer: _____ [1]

(ii) 24

Answer: _____ [1]

(iii) Calculate the lowest common multiple of 16 and 24.

Answer: _____ [1]

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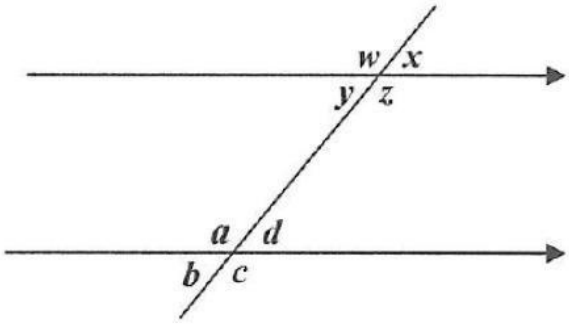
12.



(a) Identify a pair of alternate angles.

Answer: _____ [1]

(b) Identify a pair of corresponding angles.

Answer: _____ [1]

(c) If angle $a = 70°$, calculate the size of angle b.

Answer: _____° [1]

12. The diagram below shows the calendar month of August.

Study it and then answer the questions that follow.

AUGUST 2022						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Emancipation Day is celebrated on the first Monday of the month.

(i) State the date of Emancipation Day.

Answer: _____ [1]

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Mr. Rolle's birthday is on the 11th of August.

(ii) Write the day of Mr. Rolle's birthday.

Answer: _____ [1]

He plans to celebrate his birthday on the third Saturday in August.

(iii) Find how many days after his birthday does he have to wait.

Answer: _____ [1]

Teachers return to school on August 29th. Students return one week later.

(iv) Write the date the students return to school.

Answer: _____ [1]

12. The total cost of airline tickets for 6 adults is $390.

(a) Calculate the cost of 1 adult ticket.

Answer: $ _____ [2]

(b) Calculate the cost of 9 adult tickets.

Answer: $ _____ [2]

12. The ratio of boys to girls in a class is 3 : 5 respectively.

If there are 15 girls in the class, determine the

(a) number of boys in the class,

3 boys : 5 girls

6 boys : 10 girls

boys : girls

boys : girls

boys : girls

Answer: _____ [2]

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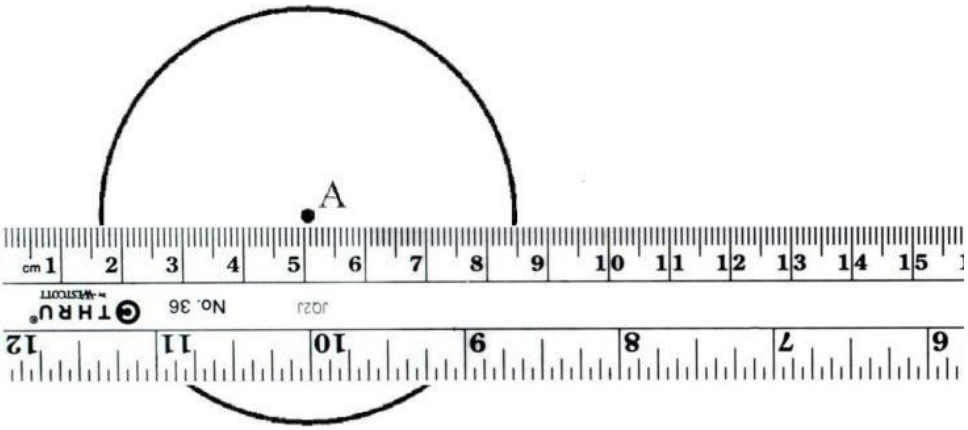
(b) total number of students in the class.

Answer: _____ [1]

12. The circle below is drawn to scale and its centre is label A.



(a) Draw a radius and label it AB. [2]

(b) (i) Measure and write down the length of the radius in *cm*.

Answer: _____ *cm* [1]

(ii) Hence, state the length of the diameter.

Answer: _____ *cm* [1]

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