## Routine Units Practice #3

1. What is the reading shown on the top dial?

   ..........................................

2. What is the reading shown on the bottom dial?

   ..........................................

3. How much does a cubic metre of water weigh?

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4. About how long is a new pen? ..........................................

5. How heavy is a typical Ford Focus: 1250 g, 125 kg, 1250 kg, or 12,500 kg?

6. What is 800 mm in cm? ..........................................

7. What is 15 km in m? ..........................................

8. What is 7.8 mg in g? ..........................................

9. How many cubic centimetres is a 2.4 litre engine? ..........................................

10. For a measurement of "12.0 mm" what can I assume
    the actual length is between?                         ..........................................

11. I measure a deck as 2.45 metres to the nearest 5 cm,
    how long might it actually be?                        ..........................................

12. What is 255 seconds in minutes? ..........................................

13. What is 2.4 hours in minutes? ..........................................

14. What is a 3 ¼ minutes in seconds? ..........................................

15. How many minutes longer is 0.9 hours than half an hour? ..........................................

16. How many lots of 11 seconds are there in 14 minutes? ..........................................

17. How long is it from 12:14 a.m. to 8:20 p.m.? ..........................................

18. What time is it two hours and twenty minutes before 9:10 p.m.? ..........................................

19. What is quarter to four in the afternoon in 24 hour time? ..........................................

20. What is 0025 in normal time? ..........................................
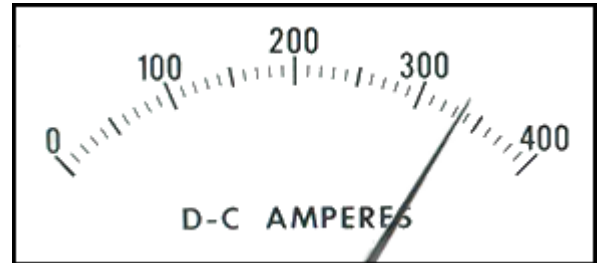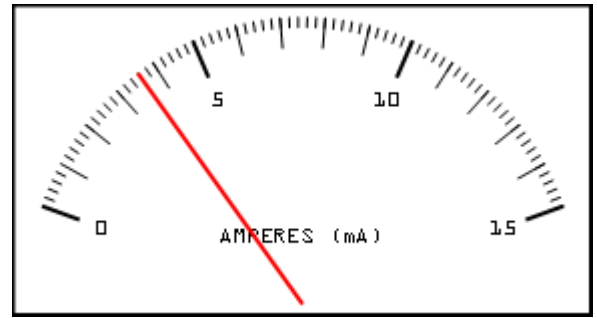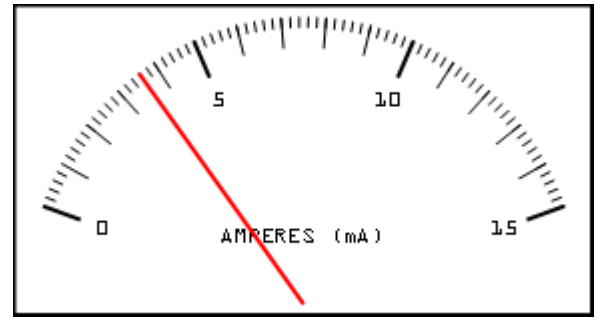
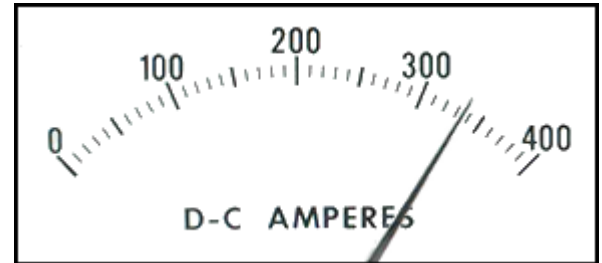## Answers: Routine Units Practice #3



1. What is the reading shown on the top dial?

   **about 3.6 mA (milliAmperes)**

2. What is the reading shown on the bottom dial?

   **about 335 A (Amperes)**

3. How much does a cubic metre of water weigh?

   **1 tonne (= 1,000 kg)**

4. About how long is a new pen? **about 150 mm  (= 15 cm)**

5. How heavy is a typical Ford Focus: **1250 kg  (= 1.25 tonnes)**

6. What is 800 mm in cm?  **80 cm**

7. What is 15 km in m?  **15,000 m**

8. What is 7.8 mg in g?  **0.0078 g**

9. How many cubic centimetres is a 2.4 litre engine?  **2,400 cc  (= 2,400 cm$^3$)**

10. For a measurement of "12.0 mm" what can I assume
    the actual length is between?                    **between 11.95 and 12.05 mm**

11. I measure a deck as 2.45 metres to the nearest 5 cm,
    how long might it actually be?                   **between 2.425 and 2.475 m**

12. What is 255 seconds in minutes?  **255 ÷ 60 = 4.25 mins  (= 4 ¼ min)**

13. What is 2.4 hours in minutes?  **2.4 × 60 = 144 minutes**

14. What is a 3 ¼  minutes in seconds?  **3 ¼ × 60 = 195 s**

15. How many minutes longer is 0.9 hours than half an hour?  **0.9 × 60 − 30 = 24 minutes**

16. How many lots of 11 seconds are there in 14 minutes?  **14 × 60 ÷ 11 = 76.36 lots**

17. How long is it from 12:14 a.m. to 8:20 p.m.?  **20 hours 6 minutes**

18. What time is it two hours and twenty minutes before 9:10 p.m.?  **6:50 p.m.**

19. What is quarter to four in the afternoon in 24 hour time?  **15:45 or 1545 (hours)**

20. What is 0025 in normal time?  **12:25 a.m. (twenty-five past midnight)**