YEAR 8 PROCEDURAL TEST A

SOLUTIONS

NAME: ....

Score: ...... / 36

1. $6 \times 8 \div (4 \times 3) =$ **4** (1)

2.

All DVDs
£7.99

How many DVDs can you buy with £50?

6   **(because 6 x 8 = 48)** (1)

3. Find 25% *of* £56   **¼ of 56 = 56/4   £14** (1)

4.

Time in Cardiff
09:00

Time in Boston
04: 00

Later that day it is 15 : 30 in Cardiff. What time is it in Boston?

Boston is 5 hours behind, so   10 : 30 (1)

5. Complete this table

	Greater than $\frac{1}{4}$	Less than $\frac{1}{4}$
2	✓	
0.08		✓
$\frac{1}{3}$	✓	
0.3	✓	

(1)

6.   0.8 km =   **800**   metres   (1)

7. 12×14 **168**   (1)

8.   **Subtract** 0.06 from 0.3   **0.24**   (1)

9.   **Complete this invoice**

7 hours at £45 for each hour: total cost	£ 315
Plus tax at 10% of the total cost	£**31.50**.
Grand total	£ **346.50**

                                                                       (2)

10.   Work out how many fifths there are in $2\frac{1}{5}$ **11**   (1)

11.   250g of Salmon costs £3.75. How much is that per 100g?

       50g = 375/5 = 75p,   so 100g = 2 x 75p =   £1.50   (2)

12. $800 \times \mathbf{0.001} = 0.8$ (1)

13.   Alfie knows that 4 pints = 2.27 litres. How many litres in 10 pints?

       8 pints = 4.54 litres,   2 pints = 1.135 litres, adding gives

       10 pints = 5.675 litres   (2)

14.

MENU	
Fish & Chips	£7.99
Jacket Potato	£3.85
Lasagne	£4.99

Some friends order 2 lasagne, 3 fish and chips and 1 jacket potato.

Estimate the total cost, to the nearest £.
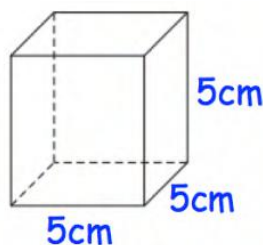
(2 x 5) + (3 x 8) + 4 = 10 + 24 + 4 =   £38 (1)

15. $2.24 + 2.25 + 2.26 =$ **6.75** (1)

16.   Round 888, 888 to **three** significant figures   **889,000** (1)
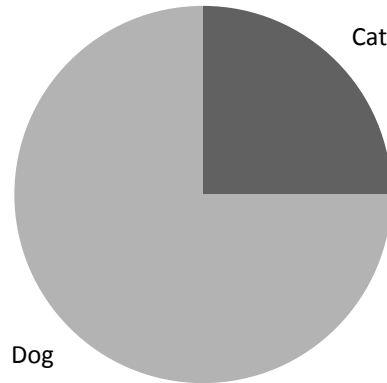
Round 234.784 to 1 decimal place   **234.8** (1)

17.   1 m^2 =   **1m x 1m =   100cm x 100cm =   10,000 cm^2** (1)

18.   Work out the volume of this cube

Volume   = Length x Width x Height

= 5 x 5 x 5 = 125 cm^3 (1)

19. **Pie chart to show the proportion of cats and dogs owned by year 8**

The ratio of **cats to dogs** is $\qquad$ 1: **3** (1)

If there are 16 pets altogether, how many dogs are there? **12** (1)

20. Work out $4^3 - 4^2$ **= 64 – 16 = 48** (1)

21. Circle the fraction that is nearest to 0.7.

$\dfrac{2}{3}$	$\dfrac{4}{5}$	$\dfrac{3}{5}$	$\dfrac{13}{20}$
0.66..	**0.8**	**0.6**	**0.65**

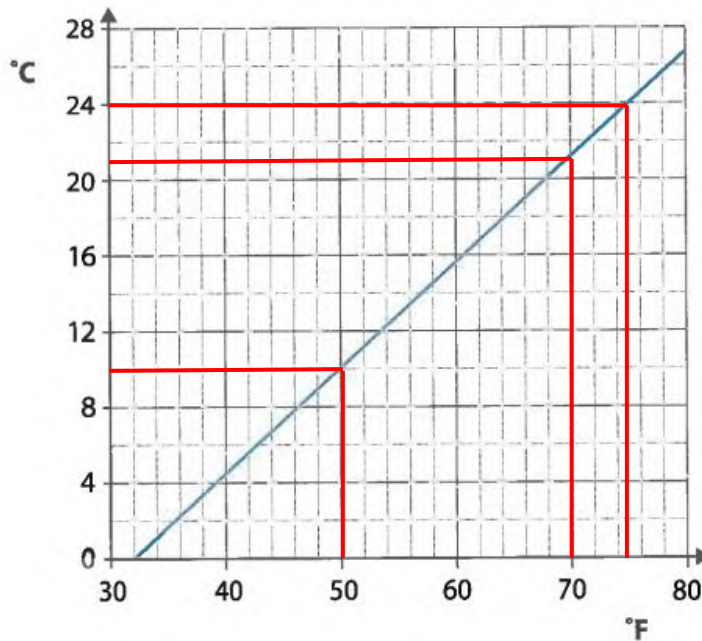**Answer:** $\dfrac{\mathbf{2}}{\mathbf{3}}$ (1)

22. The reciprocal of $\dfrac{3}{4}$ is $\dfrac{\mathbf{4}}{\mathbf{3}}$ (1)

23. The perimeter of a square is 32cm. What is the area?

Side of square = 8cm, so area = 8 x 8 = 64cm² (1)

24.
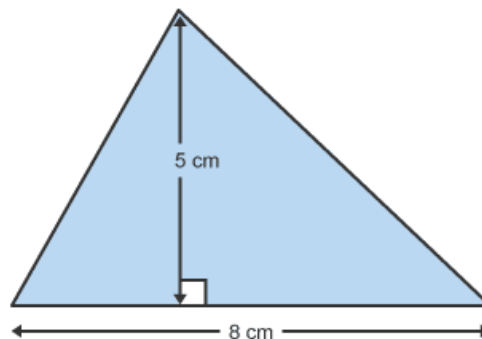
Changing between °F and °C

21 °C = **70** °F   (1)

When the temperature goes up by 14 °C, what does it go up by in °F?

10 °C = 50 °F   and   24 °C = 75 °F

So if it goes up by 14 °C, it goes up by   25 °F   (1)

25.   Work out the area of this shape

5 cm

8 cm

Area of a triangle = $\frac{1}{2}(base \times height) = \frac{1}{2} \times (8 \times 5) = 20$ cm² (2)

26. Catherine is working out a problem on her calculator and gets an answer of 4.9 minutes. How long is this in minutes and second?

    4 minutes and **54** seconds. (1)

27. This exercise bike was £450. If the price is now £270, what is the percentage reduction?

    10% = £45,   reduction is £450 - £270 = £180,   £180 = 40 % (1)

28. Restaurants in Wales are given a hygiene rating. Megan collates information for 10 restaurants.

6 had a hygiene rating of 5
3 had hygiene rating of 4
1 had a hygiene rating of 3

    Work out the mean hygiene rating.

    Total score = (6 x 5) + (3 x 4) + (1 x 3) = 30 + 12 + 3 = 45

    Mean   = Total Score/ How Many = 45 / 10 = 4.5 (2)

END OT TEST. GO BACK AND CHECK YOUR WORK