

# TeeJay Publishers

## Diagnostic Assessment Level D

name :- .....

class :- .....

teacher:- .....

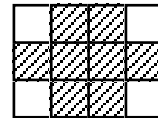
date :- .....

1. Write 328 015 in words.

2. Write "twenty thousand four hundred and five" in figures.

3. What is the number which is fifteen thousand less than one million ?

4. Simplify  $\frac{32}{40}$



5. What fraction (in its simplest form) of this shape is shaded ?

6. 73% of a class are boys. What percentage of the class are girls ?

7. Write 1275 centimetres in metres as a decimal.

8. What is the total cost of 9 Marathons at 38p each ?

9. I bought 2 magazines at £2.95 each, and a book at £5.75.  
How much change would I receive if I handed over a £20 note ?

10. When I travelled to America the exchange rate was £1 = \$1.50.  
How much would a £16 baseball ticket cost me in dollars ?

11. Do mentally :- (a)  $53 + 29$

(b)  $92 - 67$

12. Find (a)  $700 - 284$

(b)  $£7.63 + £4 + 95p$

(c)  $£20 - £8.74$

(d)  $43.27 - 16.89$

13. Do mentally :- (a)  $304 \times 7$

(b)  $320 \div 8$

14. Find the remainder when  $96 \div 7$ .

15. Do mentally :- (a)  $46 \times 10$

(b)  $28.7 \times 100$

(c)  $0.273 \times 1000$

(d)  $50.7 \div 100$

16. How many (a) weeks are there in a year ?

- (b) days are there in a year ?

- (c) days are there in August ?

17. Round (a) 28.69 to the nearest whole number.
- (b) 6796 km to the nearest 10 km.
- (c) 22487 to the nearest 100

18. Find (a)  $\frac{1}{3}$  of £84  (b)  $\frac{3}{4}$  of £360  (c)  $\frac{9}{20}$  of £600

19. Write down the next four numbers in the following patterns :-

- (a) 8, 14, 20, 26,  (b) 4, 7, 11, 16, 22,

20. (a) Measure the length of this line in millimetres.




- (b) Measure this one in centimetres.




21. Tick the best estimate for the length of your classroom from front to back in metres.

 1.50 m

 3 metres

 8 metres

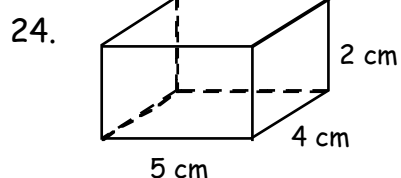
 20 metres

22. (a) What is the cost of buying 20 blazers at £21.50 each ?

- (b) A butcher divides 41.6 kg of mince into 8 equal packets.  
What is the weight of each packet ?

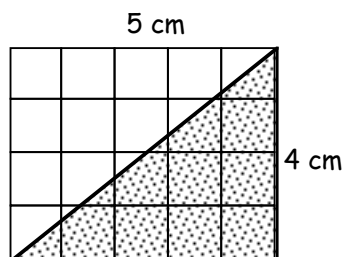
23. Change :- (a) 2450 millilitres into litres.

- (b) 3.15 litres to millilitres.



How many centimetre cubes could be packed into this box ?

25. Calculate the area of this (shaded) triangle :-




26. "An apple weighs 25 g, 150 g, 1500 g, or 15000 g".  
Which is it most likely to be ?

27. Write in 24 hour notation :- (a) 9.45 am  (b) 10.50 pm.

28. Write these in 12 hour notation stating whether they are am or pm.

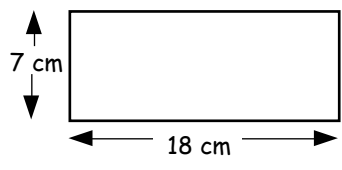
(a) 1740

(b) 0120

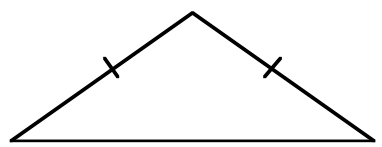
29. A film starts at 1945 and ends at 2120. How long did it last ?

30. A car travels the 240 kilometres from Glasgow to Abertooley.  
The journey took exactly 4 hours.  
What was the average speed of the car ?

31. Calculate the **perimeter** of this rectangle :-



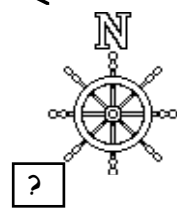
32. What is the special name for this type of triangle ?



33. Is this angle acute or obtuse ?



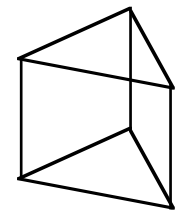
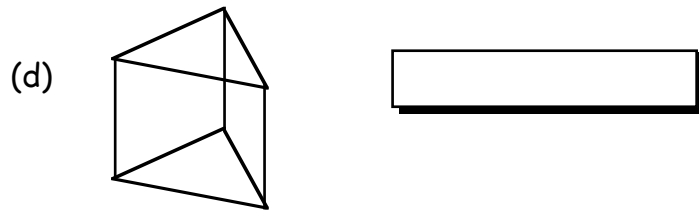
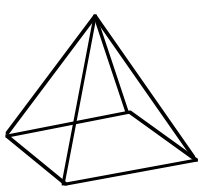
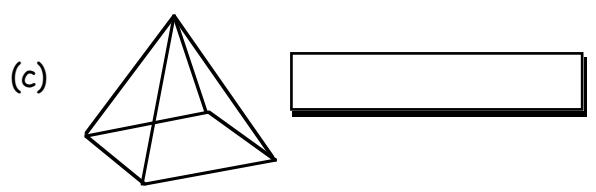
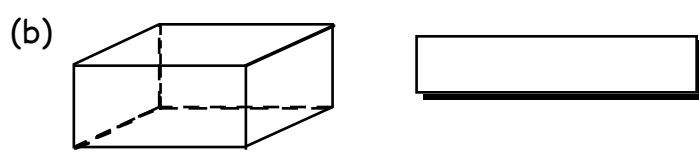
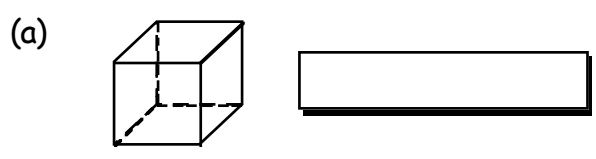
34. What is the direction marked (?) in this compass ?



35. Name these mathematical shapes.

(a)

(b)



36. What are the coordinates of the point A in this diagram ?

