

London Independent Girls' Schools Consortium (Group 1): 11+ Maths 2015

School: London Independent Girls' Schools Consortium (Group 1)

Subject: Maths

Level: 11+

Time: 75 mins

Type: Past Test Paper

Year in use: 2015

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Q.	Answer	Solution
1.	5632	
2.	4556	
3.	4781	
4.	494	
5.	(a) 0.569 (b) 2007	



6. $\underline{36} + \underline{64} = \underline{100}$

7. 27

8. 0.603

9. 87, 75

10. 12 and 5

11. (a) 38
(b) 9
(c) 10

12. 75 %

13. £1.79

14. (a) -10 °C
(b) 9 degrees

15. (a) 876512
(b) 876215
(c) 1278
(d) 7509

16. (a) 27
(b) 50 ml
(c) 3 weeks

17. 31

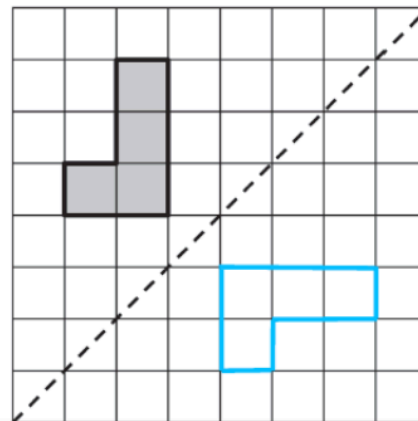
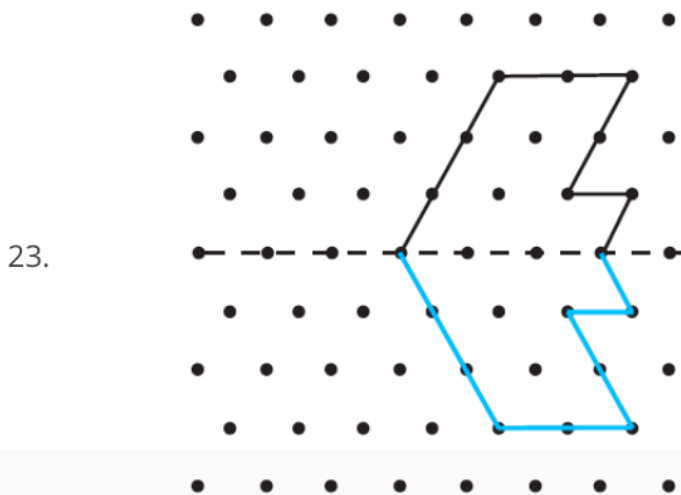
18. (a) 1224
(b) 2496
(c) 2.448
(d) 5.1

19. (a) 8
(b) $\frac{3}{8}$

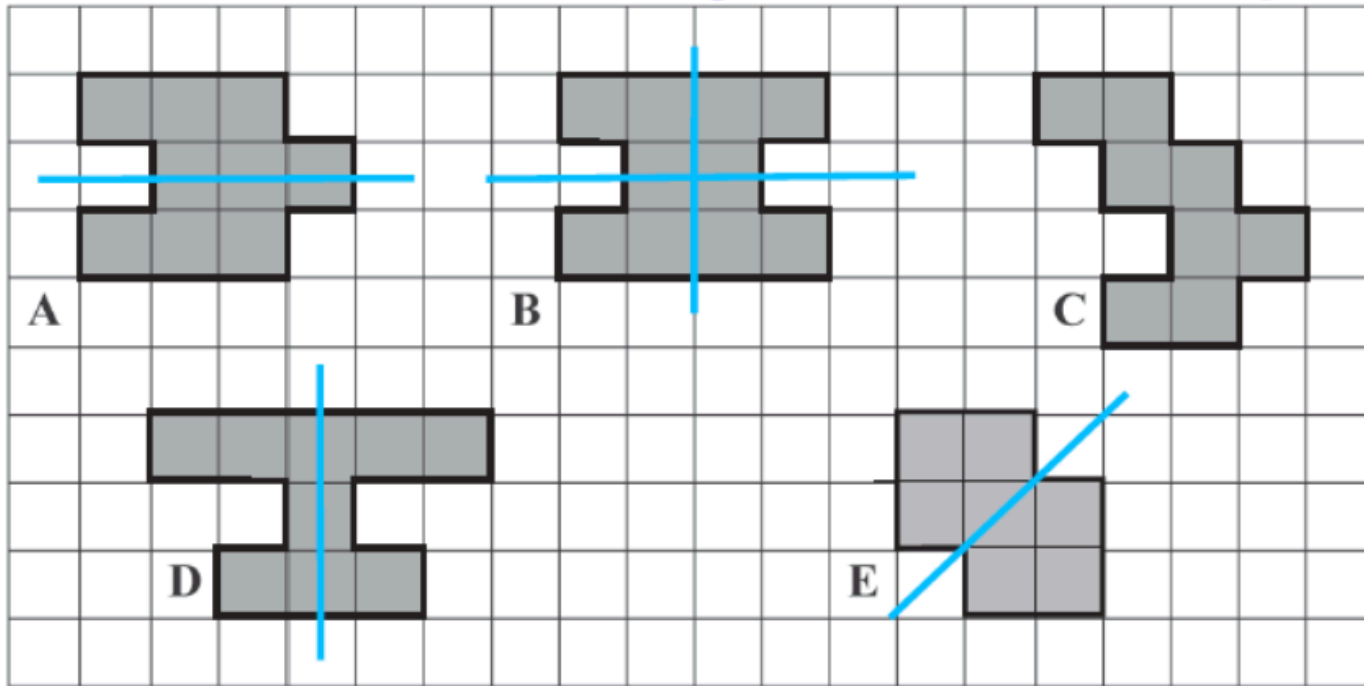
20. £2.65

21. $\frac{+3}{\text{then } \div 2}$
or
 $\times 0.5$ then $+1.5$ (thanks for the contribution from user **aeolus59**)

22. (a) 8.3 cm
(b) 83 mm

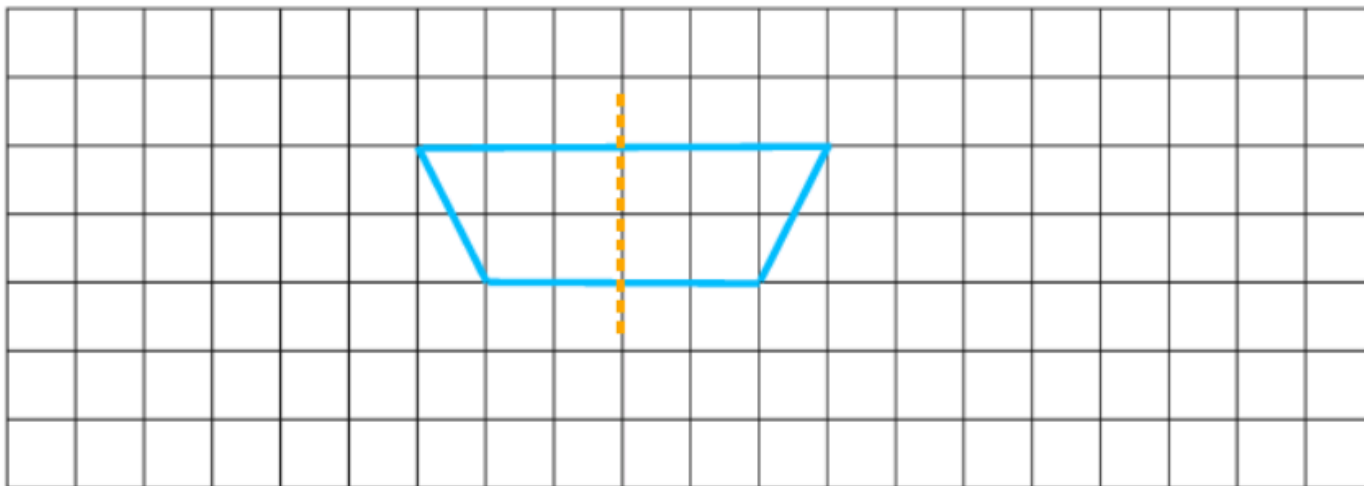


- (a) E
- (b) D
- (c)



24.

- (d)



- (a) 9
- (b) $\frac{1}{3}$

25.

(c)



26.

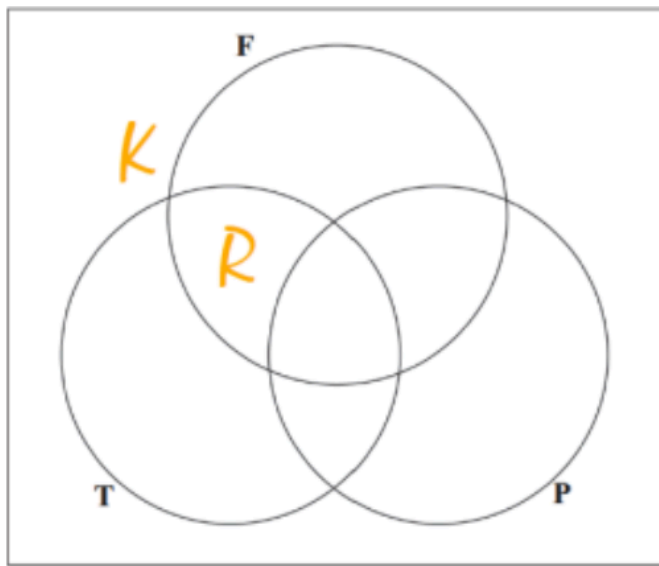
- (a) D
- (b) E
- (c) A

27.

- (a) 20 min 24 s
- (b) 5 min 6 s
- (c) 6 min 14 s

28.

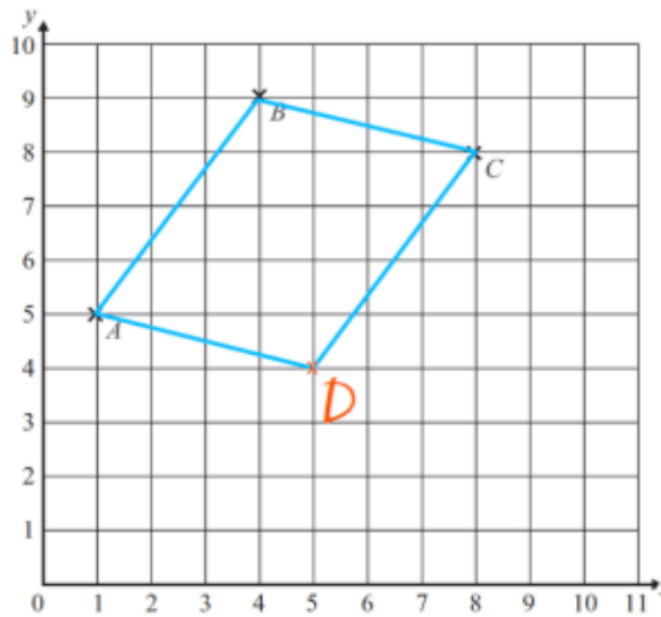
(a)



(b) Square

29.

(a)



(b) $(5, 4)$

(c) 19 cm^2

30.

8 cm

31.

$$\begin{array}{r} \boxed{3} \boxed{6} 4 \\ + 2 7 \boxed{3} \\ \hline 6 3 7 \end{array} \quad \begin{array}{r} 7 \boxed{7} 1 \\ - \boxed{4} 9 \boxed{4} \\ \hline 2 7 7 \end{array}$$

32.

7 jellyfish

33.

- (a) 21 cm
- (b) 63 cm
- (c) 19
- (d) 105 cm

34.

- (a) 20
- (b) 2
- (c) 6.5
- (d) 0
- (e) (i) 9
- (ii) 16

35.

- (a) 555
- (b) 888
- (c) 499.5
- (d) 962



(a)

	10^2	11^2	12^2	13^2	14^2	15^2	16^2	17^2	18^2
square number	100	121	144	169	196	225	256	289	324
digital root	1	4	9	7	7	9	4	1	9

36.

(b) The digital root follows the same pattern for every set of 9 consecutive numbers ending at a multiple of 9.

- (c) (i) 1
- (ii) 4
- (iii) 9

37.

- (a) 14
- (b) 54

38.

- (a) 14
- (b) 7
- (c) -3
- (d) $t = 13$