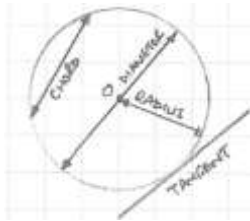


**A little bit of maths each day – February 2018 Calendar – Foundation Tier – Answers**

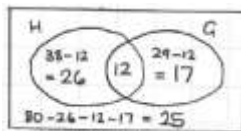
1<sup>st</sup>

$x = 4, y = -3$

2<sup>nd</sup>



3<sup>rd</sup>/4<sup>th</sup>



(b)  $5/16$

5<sup>th</sup>

(a)  $15/2$

(b)  $47/15$

6<sup>th</sup>

$323^\circ$

7<sup>th</sup>

58cm

8<sup>th</sup>

£665.86

9<sup>th</sup>

$17/36$

10<sup>th</sup>/11<sup>th</sup>

(a) 0.56

(b) 0.12

12<sup>th</sup>

$60.5^\circ$

13<sup>th</sup>

781

14<sup>th</sup>

2.00

15<sup>th</sup>

(a) RB, RY, RO, RR, BR, BY, BO, YR, YB, YO, OR, OB, OY (b)  $7/13$

16<sup>th</sup>

46.75%

17<sup>th</sup>/18<sup>th</sup>

Cheaper from China but postage costs may make UK cheaper

19<sup>th</sup>

10.75km

20<sup>th</sup>

(a) 523010 (b)  $4.01 \times 10^{-4}$  (c)  $5.20 \times 10^2$

21<sup>st</sup>

62.5% reduction

22<sup>nd</sup>

$1/9$

23<sup>rd</sup>

(a)  $-3 < x \leq 4$  (b)  $-2/9$  (c) 0, 1, 2, 3, 4

24<sup>th</sup>/25<sup>th</sup>

(a)  $10 < t \leq 20$  group (b) 18.2

26<sup>th</sup>

(a)  $(x + 12)(x - 3)$  (b)  $9x^2 + 30x + 25$  (c)  $m = n(r + p)$

27<sup>th</sup>

35 : 20 : 12

28<sup>th</sup>

Rotation,  $90^\circ$  anticlockwise (or  $270^\circ$  clockwise) about (1, -2)