Stanground Academy

Mathematics Department

Year 9 Foundation

Home Learning Booklet – 29th June



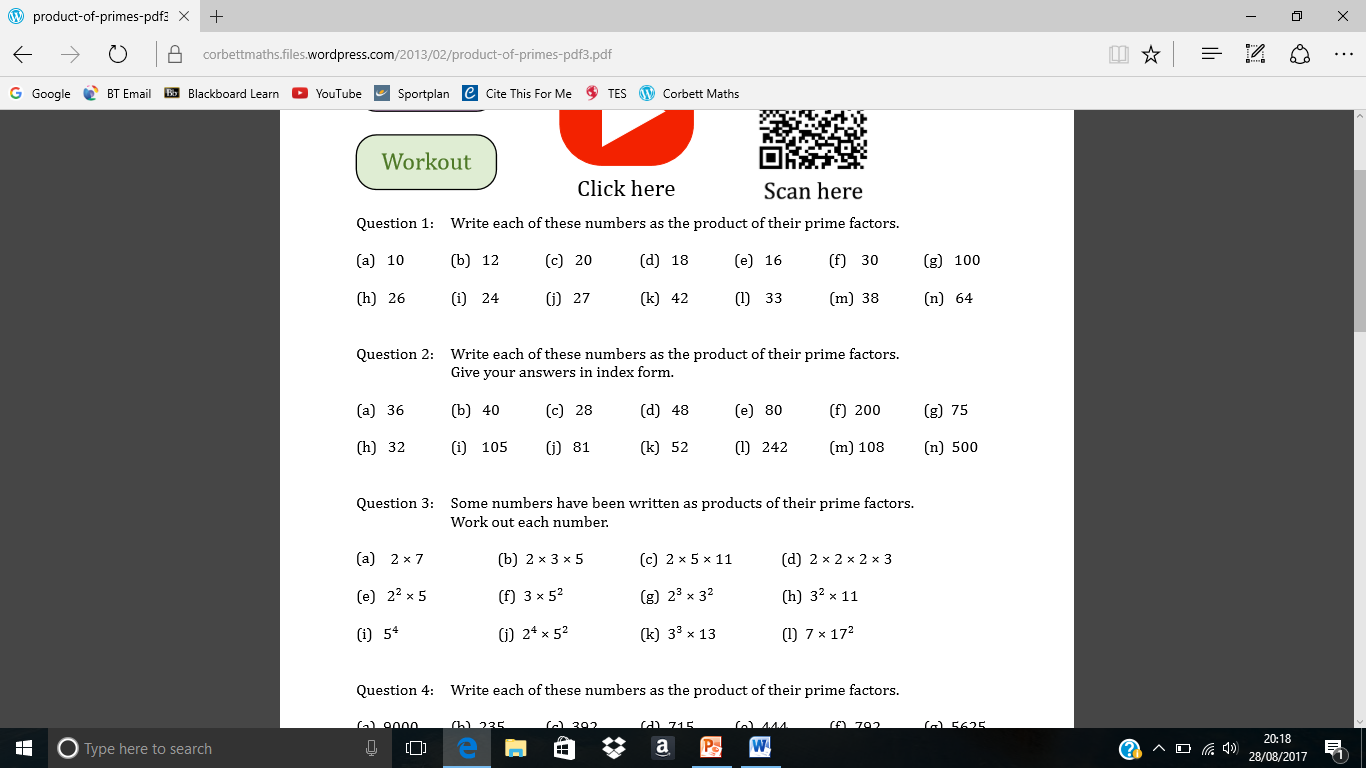
Student’s Name:....................................................

Teacher:.................................................

*Please Note; it is important to show your working out, if not you will not receive the marks.*

**Prime Factors**

Watch the video and answer the questions: <https://corbettmaths.com/2012/08/20/product-of-primes/>



**ANSWERS**

**Question 1:**

**(a)  2 x 5          (b)  2 x 2 × 3             (c)  2 x 2 × 5         (d)  2 × 3 x 3**

**(e)  2 x 2 x2 x 2     (f)  2 × 3 × 5         (g)  2 x 2 × 5 x 5    (h)  2 × 13**

**(i)  2 x 2 x 2 × 3     (j)  3 x 3 x 3        (k)  2 × 3 × 7         (l)  3 × 11**

**(m)  2 × 19              (n)  2 x 2 x 2 x 2 x 2 x 2**

**Question 2:**

**(a)  2² × 3²             (b)  2³ × 5             (c)  2² × 7            (d)  2⁴ × 3**

**(e)  2⁴ × 5                (f)  2³ × 5²            (g)  3 × 5²            (h)  2⁵**

**(i)  3 × 5 × 7             (j)  3⁴                     (k)  2² × 13          (l)  2 × 11²**

**(m)  2² × 3³            (n)  2² × 5³**

**Question 3:**

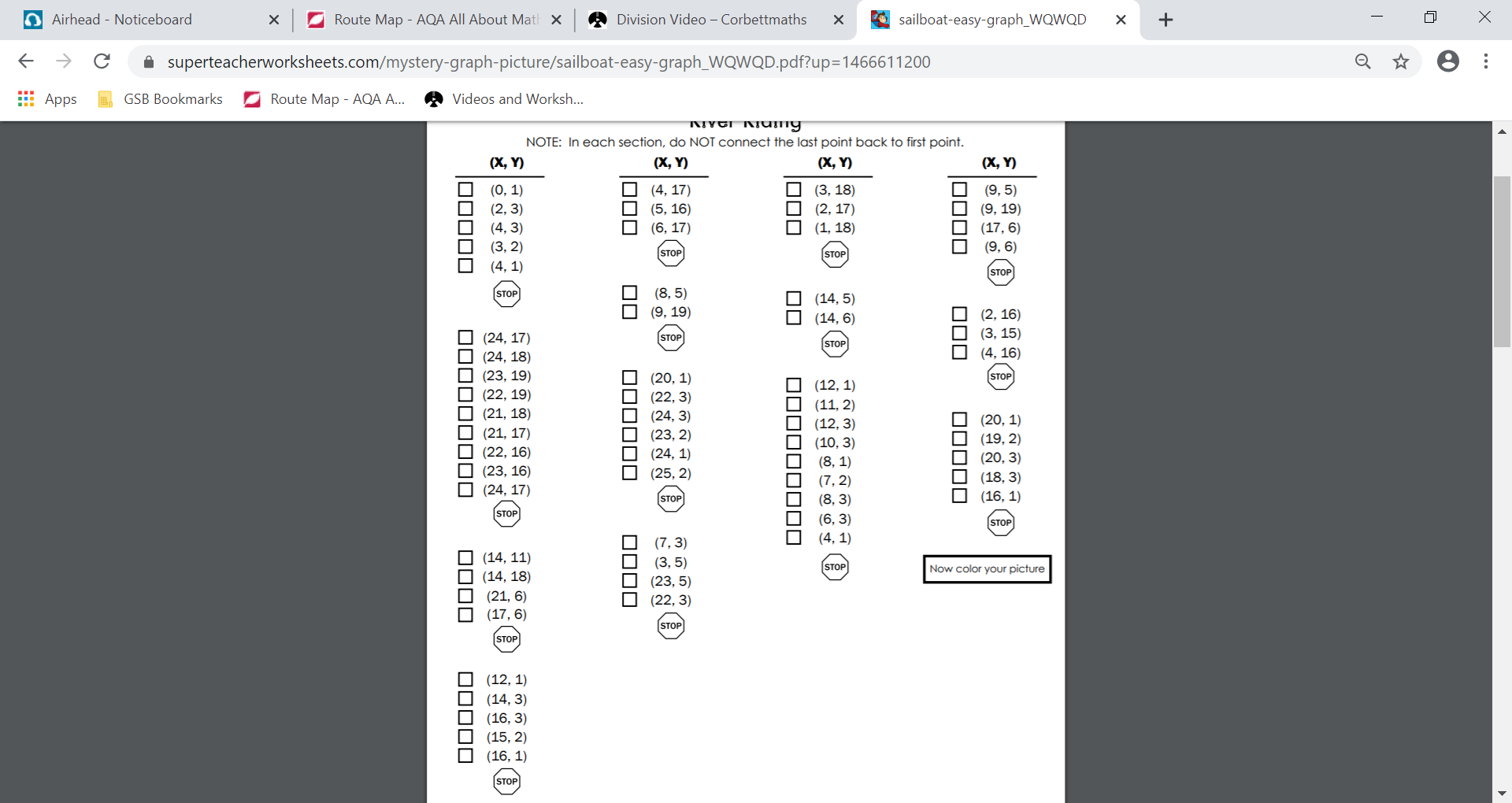
**(a) 14                      (b)  30                     (c)  110                   (d)  24**

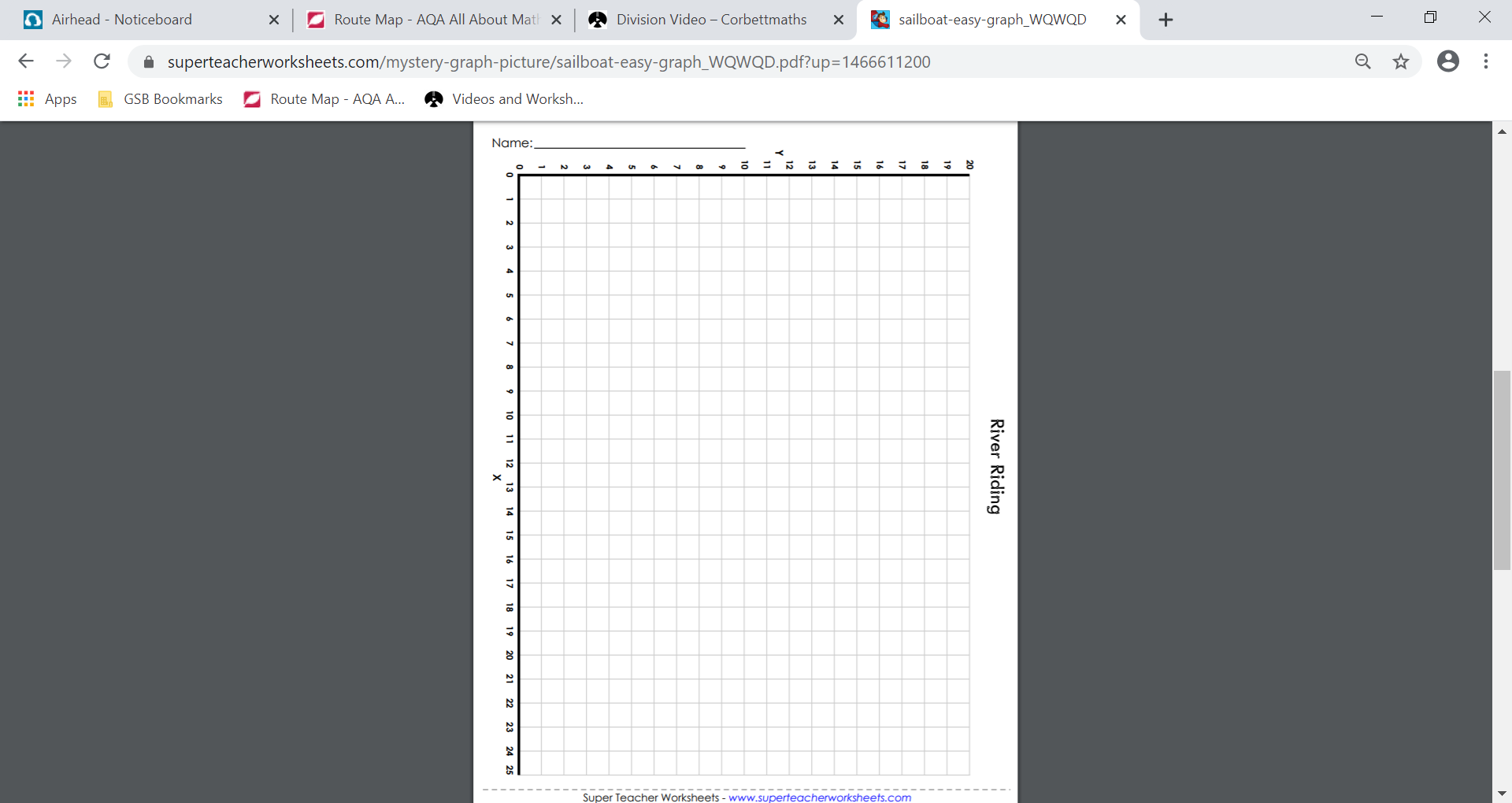
**(e)  20                    (f)  75                      (g)  72                    (h)  99**

**(i)   625                  (j)  400                   (k)  351                  (l)  2023**

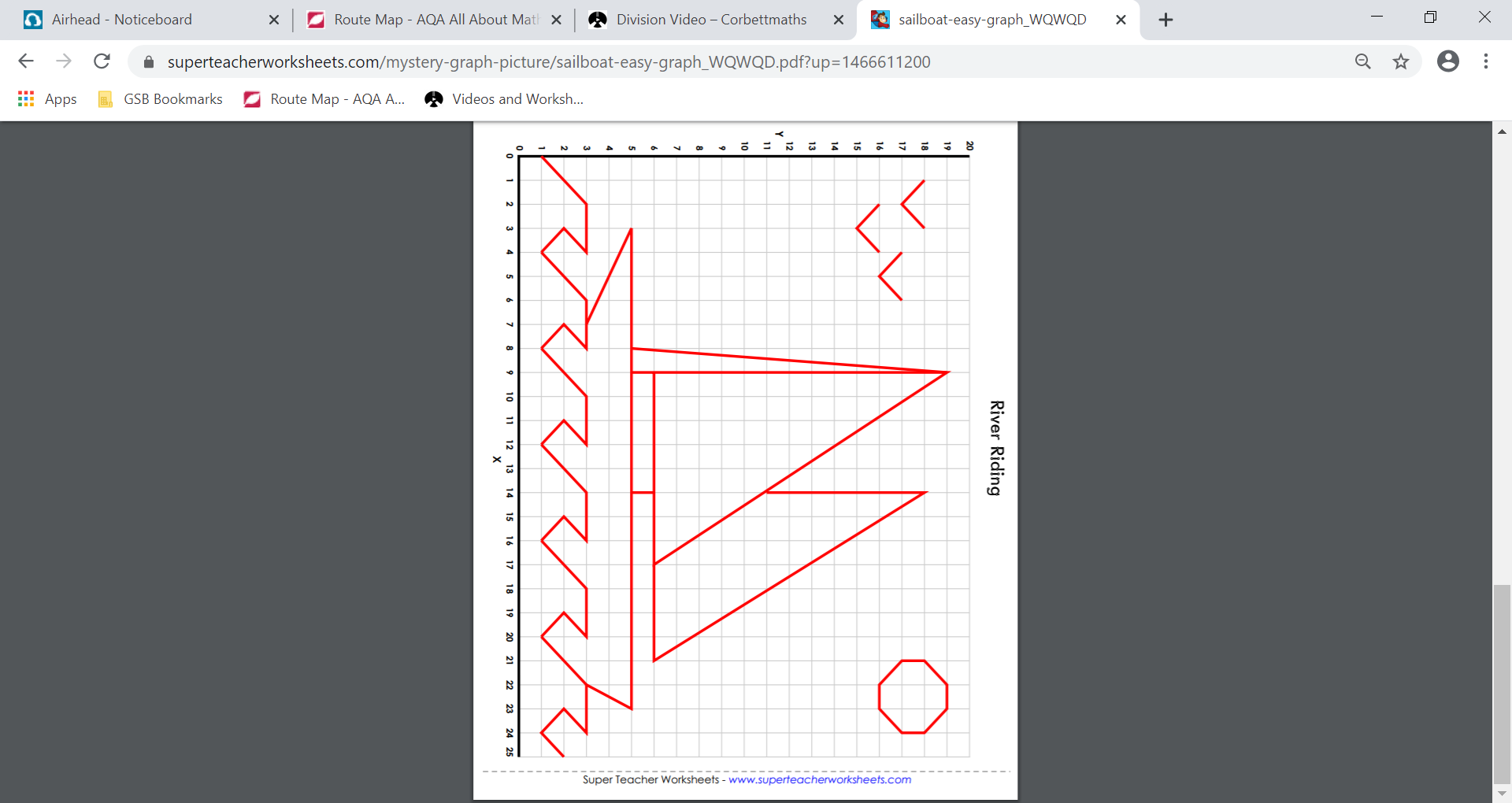
**Plotting Co-ordinates**

Watch the video and answer the questions: <https://corbettmaths.com/2013/04/15/coordinates/>



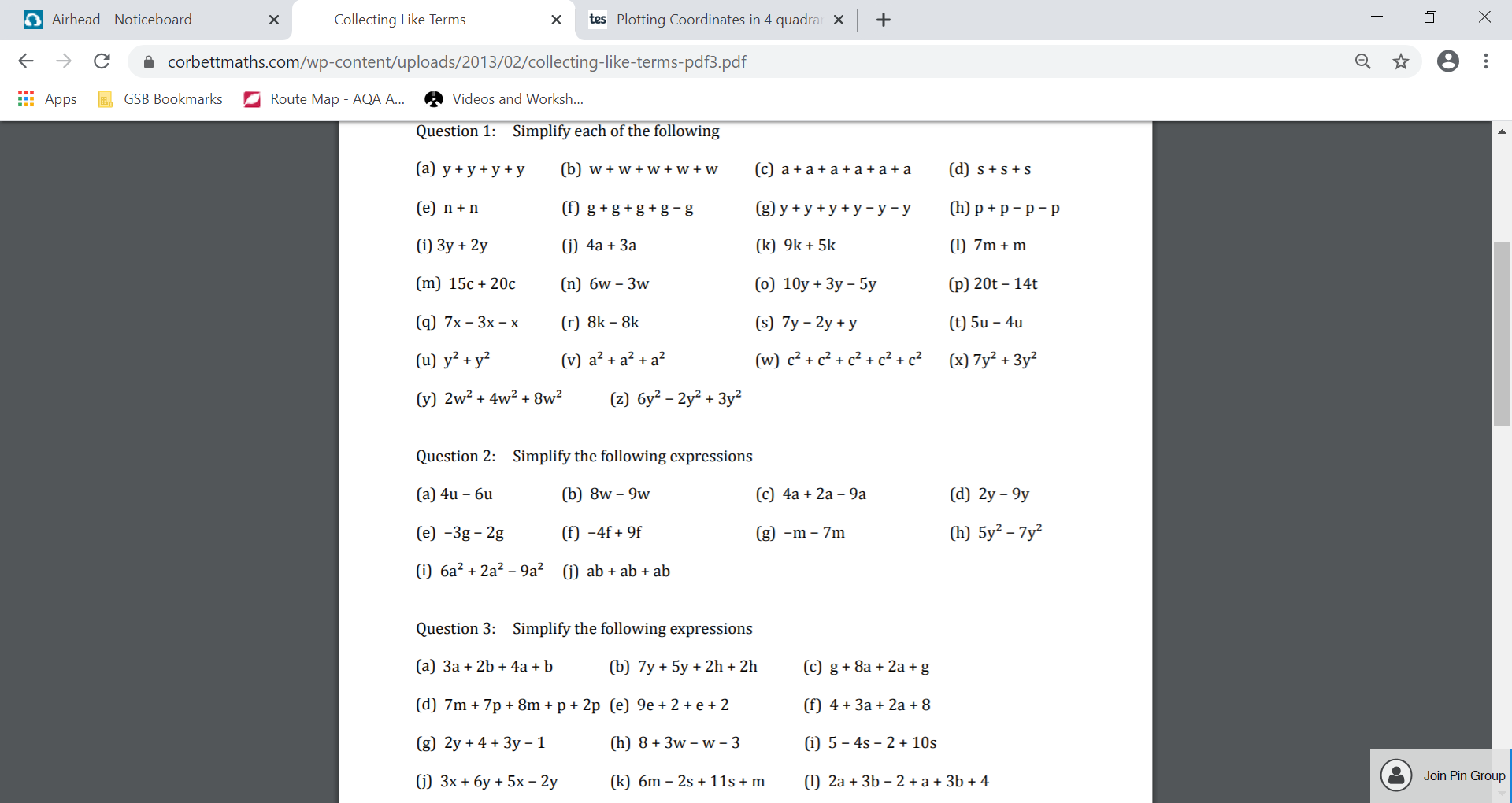


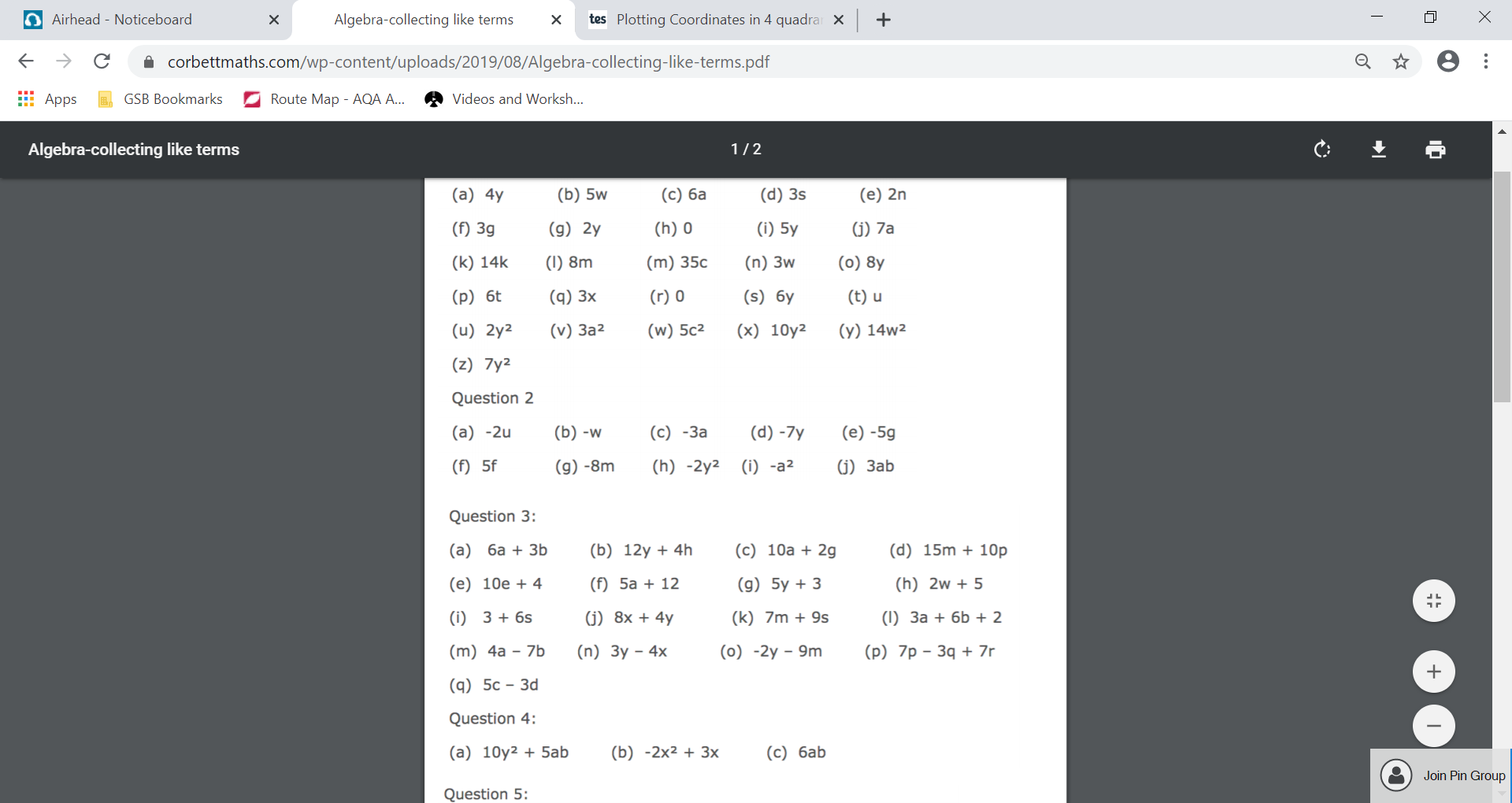
**ANSWERS**



**Simplifying Algebraic Expressions**

Watch the video and answer the questions: <https://corbettmaths.com/2013/12/28/collecting-like-terms-video-9/>



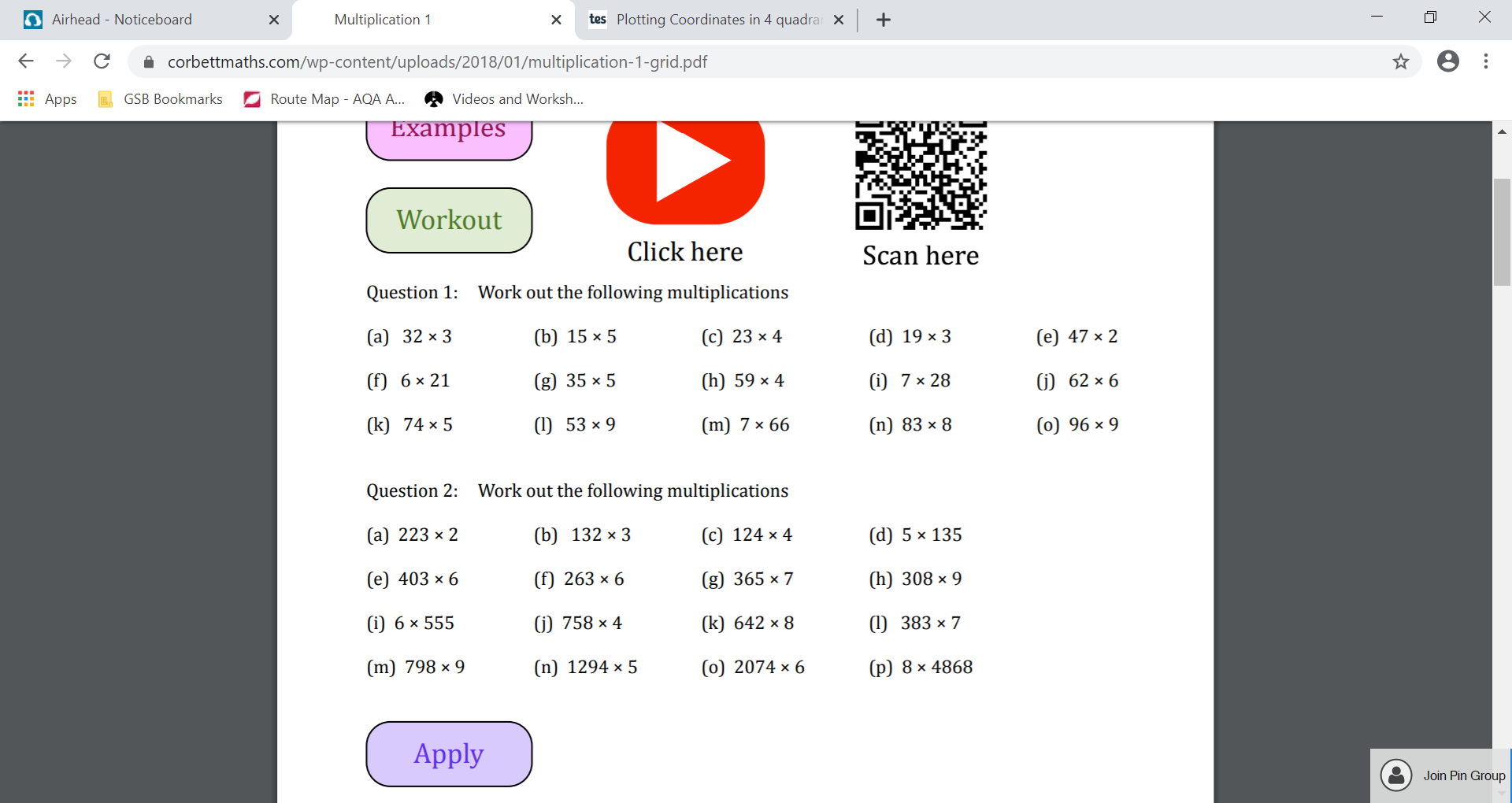


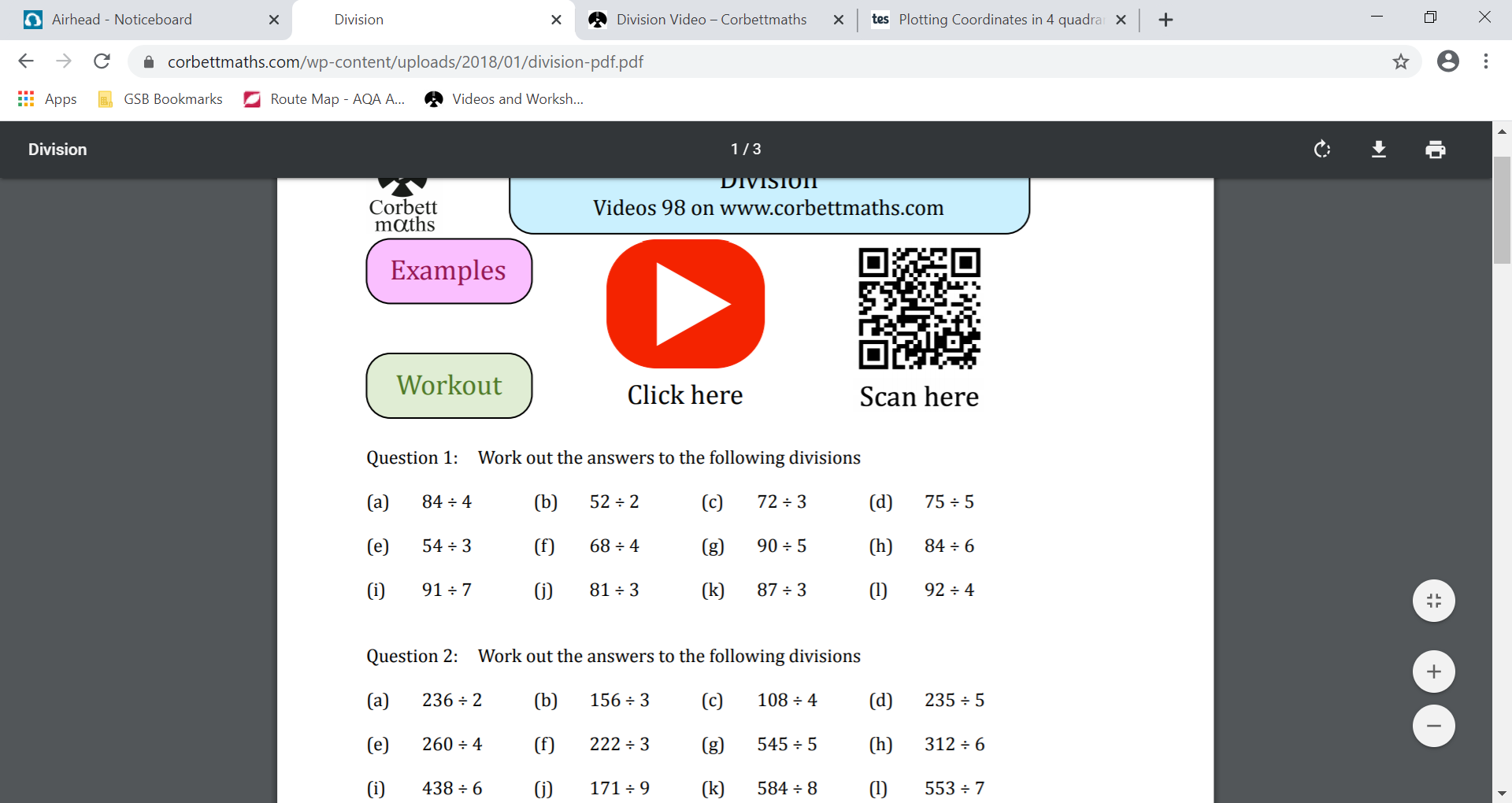
ANSWERS

Correct answer Question3 (a)7a + 3b

**Multiplying and Dividing**

Watch the video and answer the questions: <https://corbettmaths.com/2013/12/20/multiplication-grid-method-video-199/> and <https://corbettmaths.com/2013/12/28/division-video-98/>





**ANSWERS**

**Question 1 (a) 96 (b) 75 (c) 92 (d) 57 (e) 94 (f) 126 (g) 175 (h) 236 (i) 196 (j) 372 (k) 370 (l) 477 (m) 462 (n) 664 (o) 864**

**Question 1 (a) 21 (b) 26 (c) 24 (d) 15 (e) 18 (f) 17 (g) 18 (h) 14 (i) 13 (j) 27 (k) 29 (l) 23**