<u>Ratio KS2 SATS Standard Worksheet Answers</u>

1.   a   Any value between 11.8 and 12.2 (cm) inclusive   1

     b   Any value between 23.6 and 24.4 (m) inclusive   1

       *If an incorrect answer was given in (a), accept an answer
for (b) if the value in (a) is correctly multiplied
by 2.*

         [2]

2.   Sapna   8   Robbie   6   1

           U1

         [1]

3.   80   1

         [1]

4.   (a)   Award **TWO** marks for the correct answer of £2.10 **OR** 210p   Up to 2m

       If the answer is incorrect, award **ONE** mark for evidence of appropriate
working, eg

       $350 \div 100 = 3.5$

       $3.5 \times 60 =$ wrong answer

         *Accept for **TWO** marks £2.10p **OR** 210 **OR** 2.10*

         *Accept for **ONE** mark £2.1 **OR** £210 **OR** 2.10p as evidence of
appropriate working.*

         *Calculation must be performed for the award of **ONE** mark.*

     (b)   Award **TWO** marks for the correct answer of 250   Up to 2m

       If the answer is incorrect, award **ONE** mark for evidence of appropriate
working, eg

       $200 \div 80 = 2.5$

       $100 \times 2.5 =$ wrong answer.

         *Calculation must be performed for the award of **ONE** mark.*

         [4]

5.   15 and 10

       Both numbers to be correct.

         [1]

6.   Award **TWO** marks for 39.6 km, even if there are errors in the working.   up to 2

     If the answer is incorrect, award **ONE** mark for evidence of correct partial result
6×6.6 by any appropriate method (not repeated addition only), eg:

     • $6 \times 6.6 = 36 + ...$ (incorrect answer given)

     • $6 \times 6.6 = 396$

         The writing of an expression such as:

         •   *6×6.6*

           alone, without attempt at calculation, is insufficient for the

1

mark.

[2]

7. Award **TWO** marks for the correct answer of 375. up to 2

If the answer is incorrect, award **ONE** mark for an appropriate method, such as:

- $250 \div 2 \times 3$

> *Calculation need not be performed for the award of ONE mark, but the method shown must be capable of producing the correct answer.*

[2]

8. (a) Award **TWO** marks for correct answer of 120 OR 95
(if book is assumed to have two covers) up to 2

If the answer is incorrect, award **ONE** mark for evidence of appropriate strategy, eg:

- $435 - 75 = 360$
  $360 \div 3$
- $435 - 150 = 285$
  $285 \div 3$

(b) Award **TWO** marks for correct algebraic expression equivalent to
t = 3n + 75, OR t = 3n + 150, eg: up to 2

- $t = 3 \times n + 75$
- $t = 75 + n3$

If expression is incorrect award **ONE** mark for evidence of $3 \times n$, eg:

- $3n + 750$

OR evidence of addition of 75 (or 150) to an expression involving n, eg:

- $n + 75$

> *No mark is awarded for the expression in words.*
> *Accept inclusion of 'p' in expression, eg:*
>
> - **$3p \times n + 75p$**
> *Accept 'use of N' as well as n.*
> *Answer to 20b must be consistent with answer to 20a, ie if 2 covers are assumed in 20a, they should be assumed in 20b.*

[4]

9. 4
1
U1

[1]

10. (a) Award **TWO** marks for the correct answer of 200 Up to 2m

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

$320 \div 8 \times 5$

> *Calculation need not be performed for the award of the mark.*

(b) Award **TWO** marks for the correct answer of £4.60 Up to 2m

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

2

$44.85 \div 9.75$

> *Accept for **TWO** marks £4 60 **OR** £4-60 **OR** £4.60p*
>
> *Accept for **ONE** mark £4.6 **OR** £460p **OR** £460 as evidence of an appropriate method.*
>
> *Calculation need not be performed for the award of the mark.*

[4]

11. Award **TWO** marks for the correct answer of 45cm.   Up to 2m

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

$60 \div 4 \times 3$

> *Answer need not be obtained for award of the mark.*

[2]

12. 360   1

> *Accept 0.36kg **OR** .36kg*

[1]

13. (a) $\dfrac{3}{4}$ – **OR** 0.75   1m

> *Accept equivalent fractions.*

(b)   Award **TWO** marks for the correct answer of 625   Up to 2m

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

2.5×250

OR

$250 + 250 + 125$

> *Accept for **ONE** mark 0.625 **OR** 6.25 **OR** 62.5 **OR** 6250 as evidence of appropriate method.*
>
> *Calculation need not be performed for the award of the mark.*

[3]

14. Award **TWO** marks for the correct answer of 8   up to 2

If the answer is incorrect, award **ONE** mark for evidence of an appropriate method, eg

$1 + 2 + 3 = 6$

$24 \div 6 = 4$

4×2

OR

6 fruits   2 oranges

12 fruits   4 oranges

18 fruits   6 oranges

24 fruits   wrong answer

> *Answer need not be obtained for the award of **ONE** mark.*

[2]

15. Award **TWO** marks for the correct answer of 21   Up to 2 marks

If the answer is incorrect, award **ONE** mark for
evidence of appropriate working, eg

$5 + 2 = 7$
$15 \div 5 \times 7$

OR

5 new 2 old
10 new 4 old
15 new 6 old

> *Award **ONE** mark for an answer of 6 **OR** for 6 shown with no
> evidence of an incorrect method.*
> *Answer need not be given for the award of **ONE** mark.*

                                                                     [2]

16. Award **TWO** marks for the correct answer of 2.4   Up to 2 marks

If the answer is incorrect, award **ONE** mark for
evidence of appropriate method, eg

$6 \times 8 = 48$ (48g fibre in one loaf)

$48 \div 20$

OR

$800 \div 20 = 40$ (one slice weighs 40g)

6% of 40

> *Answer need not be obtained for the award of **ONE** mark.*

                                                                       [2]

17. Award **TWO** marks for the correct answer of 20   Up to 2m
                                                                           U2

If the answer is incorrect, award **ONE** mark for evidence of appropriate method, eg

- $30 \times £5 = £150$
  $£150 - £110 = £40$
  $£40 \div £2 = 20$
- $£110 \div 30 = £3$ each, with £20 left over
  $£20 \div £2 = 10$
  $30 - 10 = 20$

OR

a trial and improvement method, eg

- $30 \times £3$ $= £90$
  $10 \times £3 + 20 \times £5$ $= £130$
  $15 \times £3 + 15 \times £5$ $= £120$

> **Calculation must be performed for the award of** *ONE* **mark.**

> *A 'trial and improvement' method must show evidence of
> improvement, but a final answer need not be reached for the
> award of **ONE** mark.*

                                                                       [2]

18. (a)   £1.50   1m

(b)   Award **TWO** marks for the correct answer of 250   Up to 2m

If the answer is incorrect, award **ONE** mark for evidence of
appropriate method, eg

- $360 \div 90 = 4$

- $1000 \div 4$

   *Answer need not be obtained for the award of **ONE** mark.*

[3]

- $1000 \div 4$

   *Answer need not be obtained for the award of **ONE** mark.*

[3]