

## Q1. (2018)

|    |                                                                                                                      |    |                                                                                                                                                   |
|----|----------------------------------------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 30 | (x =) 3 and (y =) 2<br>in correct positions                                                                          | B2 | B1<br>$y = \frac{24}{x}$ or $4 = \frac{k}{6}$ or $k = 24$ oe<br>or (x =) 3 in correct position above 8<br>or (y =) 2 in correct position below 12 |
|    | <b>Additional Guidance</b>                                                                                           |    |                                                                                                                                                   |
|    | $y = \frac{1}{kx}$ or $4 = \frac{1}{6k}$ oe followed by $k = \frac{1}{24}$ , with no or incorrect values<br>in table |    | B1                                                                                                                                                |

## Q2. (2020)

| Q  | Answer                                                                                | Mark  | Comments                        |
|----|---------------------------------------------------------------------------------------|-------|---------------------------------|
| 24 | <b>Alternative method 1</b>                                                           |       |                                 |
|    | 2400 ÷ (3 + 5)<br>or 2400 ÷ 8<br>or 300                                               | M1    | oe accept $\frac{1}{8}$ of 2400 |
|    | 5 × their 300 or 1500<br>or<br>3 × their 300 or 900<br>or<br>their 300 ÷ 6 or 50      | M1dep | oe                              |
|    | 5 × their 300 ÷ 6<br>or<br>(2400 – 3 × their 300) ÷ 6<br>or<br>1500 ÷ 6               | M1dep | oe                              |
|    | 250                                                                                   | A1    |                                 |
|    | <b>Alternative method 2</b>                                                           |       |                                 |
|    | 2400 ÷ 6 or 400                                                                       | M1    | oe                              |
|    | their 400 ÷ (3 + 5) or 50                                                             | M1dep | oe 2400 ÷ 48 scores M1M1        |
|    | 5 × their 50<br>or 400 – (3 × their 50)                                               | M1dep | oe                              |
|    | 250                                                                                   | A1    |                                 |
|    | <b>Additional Guidance</b>                                                            |       |                                 |
|    | Answer 400 with 1500 or 900 in working                                                |       | M1M1M0A0                        |
|    | Answer 400 with 250 in working                                                        |       | M1M1M1A0                        |
|    | Condone incorrect representation of a division if recovered<br>eg $8 \div 2400 = 300$ |       | M1                              |

## Q3. (2021)

| Q  | Answer                                                       | Mark | Comments                                                                                                                                                                                |
|----|--------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 24 | No and correct reason                                        | B1   | eg<br>it will still only take 4 hours<br>it will be the same (time)<br>they could do 48m <sup>2</sup> in that time<br>even though it's twice the area there are<br>twice as many people |
|    | <b>Additional Guidance</b>                                   |      |                                                                                                                                                                                         |
|    | No and there are two people so it won't take as long (as 8h) |      | B1                                                                                                                                                                                      |
|    | No and it'll be quicker (than 8h)                            |      | B1                                                                                                                                                                                      |
|    | No and they'll do 12m <sup>2</sup> each                      |      | B1                                                                                                                                                                                      |
|    | No and it'll be the same area each                           |      | B1                                                                                                                                                                                      |
|    | No and it'll be the same area                                |      | B0                                                                                                                                                                                      |
|    | No and it depends on how fast Steve works                    |      | B0                                                                                                                                                                                      |
|    | No and it'll take 6h                                         |      | B0                                                                                                                                                                                      |
|    | No and it might take them less time                          |      | B0                                                                                                                                                                                      |

## Q4. (2024)

| Q  | Answer                                                  | Mark | Comments                                                                                                                                                                                                                                                                     |
|----|---------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 12 | Two comparable values and Y                             | B2   | B1 attempts to convert both to comparable form with at least one non-given value correct<br>eg $\left(\frac{7}{20} \text{ and } \frac{8}{20}\right)$ or $\frac{1.75}{5}$ (and $\frac{2}{5}$ )<br>or<br>0.35 and 0.4<br>or<br>35% and 40%<br>or two values in the ratio 7 : 8 |
|    | <b>Additional Guidance</b>                              |      |                                                                                                                                                                                                                                                                              |
|    | Accept two comparable values for "not red"              |      |                                                                                                                                                                                                                                                                              |
|    | $\frac{13}{20}$ and $\frac{12}{20}$ and Y               |      | B2                                                                                                                                                                                                                                                                           |
|    | $\frac{13}{20}$ and $\frac{12}{20}$                     |      | B1                                                                                                                                                                                                                                                                           |
|    | $\frac{13}{20}$ only                                    |      | B0                                                                                                                                                                                                                                                                           |
|    | Two comparable values and $\frac{2}{5}$ on answer line  |      | B2                                                                                                                                                                                                                                                                           |
|    | 35% and 40%, answer 40% (implies bag Y)                 |      | B2                                                                                                                                                                                                                                                                           |
|    | 8 and Y                                                 |      | B2                                                                                                                                                                                                                                                                           |
|    | 200 discs in each bag, 70 and 80, answer Y              |      | B2                                                                                                                                                                                                                                                                           |
|    | 200 discs in each bag, 70 (one non-given value correct) |      | B1                                                                                                                                                                                                                                                                           |
|    | 70 and 50 (number of discs in each bag not specified)   |      | B0                                                                                                                                                                                                                                                                           |
|    | 35% and 20% (attempt to convert each to a percentage)   |      | B1                                                                                                                                                                                                                                                                           |
|    | 35% only                                                |      | B0                                                                                                                                                                                                                                                                           |

## Q5 (2024)

| Q     | Answer                     | Mark | Comments    |
|-------|----------------------------|------|-------------|
| 13(b) | $\frac{5}{14}$             | B1   | oe fraction |
|       | <b>Additional Guidance</b> |      |             |
|       | 5 : 14                     |      | B0          |