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|---|---|
| Approach: | Independent |
| Focus: | Understanding number and number operations |
| Resources: | Answer booklet |

Year: 8

NEMP Access Task

## Questions / instructions:

| | | | % response 2005 ('01) year 8 |
|---|---|---|---|
| **Add one hundred** | | | |
| 1. 700 | | 800 | 94 (97) |
| 2. 15 735 | | 15 835 | 92 (88) |
| 3. 23 940 | | 24 040 | 77 (73) |
| **Multiply by one hundred** | | | |
| 4. 12 | | 1200 | 62 (66) |
| 5. 316 | | 31 600 | 53 (57) |
| 6. 5.3 | | 530 | 34 (29) |
| 7. Which number best describes the amount of the box shaded? | | | |
| **A** 0.02 | | | |
| **B** 0.12 | | B | 58 (51) |
| **C** 0.30 | | | |
| **D** 0.32 | | | |
| **E** 0.52 | | | |
| 8.   | | | |
| Estimate the decimal shown by the arrow on the number line. | | 0.5 | 60 (57) |
| | | 0.45 - 0.55 *(exclud. 0.5)* | 5 (7) |
| 9. The number that is 4 less than 34,000 is … | | 33 996 | 65 (58) |
| 10. Without working them out, which is the greatest number? | | | |
| **A** 29 + 0.8 | | | |
| **B** 29 × 0.8 | | ✘ B | [68 (77)] |
| **C** 29 ÷ 0.8 | | ✔ C | 7 (5) |
| **D** 29 − 0.8 | | | |
| 11. How much is shaded? | | | |
| **A** $\frac{1}{2}$ | | A | 86 (84) |
| **B** $\frac{2}{6}$ | | | |
| **C** $\frac{4}{6}$ | | | |
| **D** $\frac{4}{2}$ | | | |
| 12. Without working out answers, choose the answer that represents the larger amount. | | | |
| **A** 145 × 4 | | | |
| **B** 144 + 146 + 148 + 150 | | B | 67 (70) |
| **C** 140 + 142 + 144 + 150 | | | |
| **D** 140 + 142 + 148 + 150 | | | |

| | | | % response 2005 ('01) year 8 |
|---|---|---|---|
| 13. The chart shows…  | | | |
| **A** $\frac{2}{3}$ of the days are rainy | | | |
| **B** $\frac{1}{2}$ of the days are rainy | | | |
| **C** $\frac{3}{5}$ of the days are rainy | | | |
| **D** $\frac{2}{5}$ of the days are rainy | | D | 82 (75) |
| 14. What is another name for $\frac{15}{4}$? | | | |
| **A** $4\frac{1}{5}$ | | ✘ A | [31 (38)] |
| **B** $2\frac{1}{4}$ | | | |
| **C** $7\frac{4}{5}$ | | | |
| **D** $3\frac{3}{4}$ | | ✔ D | 46 (39) |
| 15. Write this number as a decimal. | | | |
| $4\frac{2}{10}$ | | 4.2 | 50 (44) |
| **Total score:** | 15–16 | | 12 (5) |
| | 13–14 | | 15 (21) |
| | 11–12 | | 20 (21) |
| | 9–10 | | 20 (18) |
| | 7–8 | | 15 (12) |
| | 5–6 | | 10 (11) |
| | 0–4 | | 8 (11) |

## Commentary:

Performance at year 8 level showed substantial improvement over year 4 (see p20), particularly in those questions involving calculation. Modest gains were seen between 2001 and 2005.