

## BỒI DƯỠNG NĂNG LỰC TOÁN 3

GIÁO VIÊN: NGUYỄN THÀNH LONG

ĐÁP ÁN BÀI TẬP TỰ LUYỆN

TÍNH NHANH

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$$\begin{aligned}1. \quad & 24 \times 5 + 24 \times 3 + 24 \times 2 \\& = 24 \times (5 + 3 + 2) = 24 \times 10 = 240\end{aligned}$$

$$\begin{aligned}2. \quad & 24 \times 5 + 24 \times 4 + 24 \\& = 24 \times (5 + 4 + 1) = 24 \times 10 = 240\end{aligned}$$

$$\begin{aligned}3. \quad & 217 \times 45 + 50 \times 217 + 207 \times 5 \\& = 217 \times (45 + 50 + 5) = 217 \times 100 = 21700\end{aligned}$$

$$\begin{aligned}4. \quad & 456 \times 36 + 456 \times 61 + 4 \times 456 + 456 \\& = 456 \times (36 + 61 + 4 + 1) = 456 \times 102 = 46512\end{aligned}$$

$$\begin{aligned}5. \quad & (16 \times 6 + 16 \times 3 + 16) - (12 \times 5 + 12 \times 3 + 2 \times 12) \\& = 16 \times (6 + 3 + 1) - 12 \times (5 + 3 + 2) = 16 \times 10 - 12 \times 10 = 40\end{aligned}$$

$$\begin{aligned}6. \quad & (16 \times 6 + 16 \times 3 + 16) - 12 \times 5 - 12 \times 3 - 2 \times 12 \\& = 16 \times (6 + 3 + 1) - 12 \times (5 + 3 + 2) = 40\end{aligned}$$

$$\begin{aligned}7. \quad & 213 \times 37 + 213 \times 39 + 23 \times 213 + 213 \\& = 213 \times (37 + 39 + 23 + 1) = 213 \times [(37 + 23) + (39 + 1)] = 213 \times 100\end{aligned}$$

$$\begin{aligned}8. \quad & 9 + 9 \times 3 + 18 : 2 \times 6 \\& = 9 + 9 \times 3 + 9 \times 6 = 9 \times (1 + 3 + 6) = 90\end{aligned}$$

$$\begin{aligned}9. \quad & 2007 \times 16 - 2007 \times 14 - 2007 \times 2 + 2007 \\& = 2007 \times (16 - 14 - 2 + 1) = 2007\end{aligned}$$

$$\begin{aligned}10. \quad & 3 \times 9 + 18 \times 2 + 2 \times 9 + 9 \\& = 3 \times 9 + (9 \times 2) \times 2 + 2 \times 9 + 9 = 3 \times 9 + 9 \times 4 + 2 \times 9 + 9 = 9 \times (3 + 4 + 2 + 1) = 9 \times 10 = 90\end{aligned}$$

$$\begin{aligned}11. \quad & (145 \times 99 + 145) - (143 \times 101 - 143) \\& = 145 \times 100 - 143 \times 100 = 100 \times (145 - 143) = 200\end{aligned}$$

$$\begin{aligned}12. \quad & 2006 \times (43 \times 10 - 2 \times 43 \times 5) + 100 \\& = 2006 \times [43 \times (10 - 2 \times 5) + 100] = 2006 \times [43 \times (10 - 10) + 100] \\& = 2006 \times 43 \times 0 + 100 = 100\end{aligned}$$

$$13. \quad 64 \times 4 + 18 \times 4 + 9 \times 8$$

$$= 64 \times 4 + 18 \times 4 + 9 \times (4 \times 2) = 4 \times (64 + 18 + 18) = 4 \times 100 = 400$$

**14.**  $44 \times 5 + 18 \times 10 + 20 \times 5$

$$= (22 \times 2) \times 5 + 18 \times 10 + 10 \times 2 \times 5 = 10 \times (22 + 18 + 10) = 10 \times 50 = 500$$

**15.**  $3 \times 4 + 4 \times 6 + 9 \times 2 + 18$

$$= 4 \times (3 + 6) + 18 + 18 = 4 \times 9 + 18 \times (1 + 1) = 36 + 36 = 36 \times 2 = 72$$

**16.**  $2 \times 5 + 5 \times 7 + 9 \times 3$

$$= 5 \times (2 + 7) + 9 \times 3 = 5 \times 9 + 9 \times 3 = 9 \times (5 + 3) = 72$$

**17.**  $15 : 5 + 27 : 5 + 8 : 5$

$$(15 + 27 + 8) : 5 = 50 : 5 = 10$$

**18.**  $99 : 5 - 26 : 5 - 23 : 5$

$$= (99 - (26 + 23)) : 5 = 50 : 5 = 10$$

**19.**  $(7 \times 8 - 56) : (2 + 4 + 6 + 8 + 112)$

$$= (56 - 56) : (2 + 4 + 6 + 8 + 12) = 0$$

**20.**  $(2 + 125 + 6 + 145 + 112) \times (42 - 6 \times 7)$

$$= (2 + 125 + 6 + 145 + 112) \times 0 = 0$$

**21.**  $(12 \times 6 - 12 \times 4 - 12 \times 2) \times (347 + 125)$

$$= 12 \times (6 - 4 - 2) \times (347 + 125) = 0$$

**22.**  $(ax7 + ax8 - a \times 15) : (1 + 2 + 3 + \dots + 10)$

$$= (ax7 + ax8 - a \times 15) : (1 + 2 + 3 + \dots + 10) = a \times (7 + 8 - 15) : (1 + 2 + \dots + 10) = 0$$

**23.**  $58 - 58 \times (6 + 54 - 60) = 58 - 58 \times 0 = 58$

**24.**  $32 + 63 \times a \times (ax1 - a : 1) + 32 \times 8 + 32$

$$= 32 + 63 \times a \times 0 + 32 \times 8 + 32 = 32 \times (1 + 8 + 1) = 320$$

**25.**  $(1 + 2 + 3 + 4 + \dots + 9) \times (21 \times 5 - 21 - 4 \times 21)$

$$= (1 + 2 + 3 + 4 + \dots + 9) \times 21 \times (5 - 1 - 4) = 0$$

**26.**  $(9 \times 7 + 8 \times 9 - 15 \times 9) : (1 + 3 + 5 + 7 + \dots + 17 + 19)$

$$= 9 \times (7 + 8 - 15) : (1 + 3 + \dots + 19) = 0$$

**27.**  $(2 + 4 + 6 + 8 + \dots + 20) \times (56 \times 3 - 72 : 9 \times 21)$

$$= (2 + 4 + 6 + \dots + 20) \times (56 \times 3 - 8 \times 7 \times 3) = (2 + 4 + 6 + \dots + 20) \times (56 \times 3 - 56 \times 3) = 0$$

**28.**  $5 \times 20 \times 4 \times 2 = (5 \times 2) \times 20 \times 4 = 10 \times 20 \times 4 = 800$

**29.**  $94 + 87 + 81 - 71 - 77 - 84$

$$= (94 - 84) + (87 - 77) + (81 - 71) = 10 + 10 + 10 = 30$$

**30.**  $1999 - 2000 + 2999 - 3000 + 3999 - 4000 + 4999 - 5000 + 5999 - 1000$

$$= (1999 - 1000) + (2999 - 2000) + (3999 - 3000) + (4999 - 4000) + (5999 - 5000) = 999 + 999 + 999 +$$

$$999 + 999 = (999 + 1) + (999 + 1) + (999 + 1) + (999 + 1) + (999 + 1) - 5 = 1000 \times 5 - 5 = 5000 - 5 = 4995$$

31.  $7 + 7 + 7 + 7 + \dots + 7 - 777$  ( Că 111 sè 7 )

$$= 7 \times 111 - 777 = 0$$

32.  $2 - 4 + 6 - 8 + 10 - 12 + 14 - 16 + 18 - 20 + 22$

$$= (2 + 6 + 10 + 14 + 18 + 22) - (4 + 8 + 12 + 16 + 20) = [(2 + 18) + (6 + 14) + 10 + 22] - [(4 + 16) + (8 + 12) + 20] = (20 + 20 + 10 + 20 + 2) - (20 + 20 + 20) = 12$$

33.  $10 + 12 + 14 + 16 + \dots + 80$

$$= (10 + 80) + (12 + 78) + \dots + (44 + 46) = 90 + 90 + \dots + 90 \text{ (Có } 18 \text{ số } 90)$$

$$= 90 \times 18 = 1620$$

34.  $60 - 61 + 50 - 51 + 40 - 41 + 30 - 31 + 20 - 21 + 10 - 11 + 70$

$$= 60 - (60 + 1) + 50 - (50 + 1) + 40 - (40 + 1) + 30 - (30 + 1) + 20 - (20 + 1) + 10 - (10 + 1) + 70 = 70 - 1 \times 6 = 64$$

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