

PIMS Elementary Grades Math Competition  
30 April 2005  
Sprint and Target Rounds - Solutions

Grade Five Division

Sprint Round:

Page 1:

1. 20
2. 18
3. 210 (\$), 210.00
4. 19 (cm)
5. 3,200,000
6. 11
7. 50
8. 50
9. 325 (meters)

Page 2:

10. 3.13 (\$), (313 c)
11. 5
12. 51 (km)
13. 64
14.  $\frac{5}{6}$ , ( $\frac{10}{12}$ )
15. 250 (grams)
16. 2468642
17. 49 (degrees, or °)
18. 6 (socks)

Page 3:

19. 647
20. 108
21. 99
22. 394 (cents),  
(3.94\$)
23. 122
24. 24
25. 14985
26.  $\frac{22}{4005}$

Target Round:

Page 1:

1. 60 (cm), (0.6 m)
2. 1000 ( $cm^3$ )
3. 16
4. 19

Page 2:

5. 10
6. 8
7. 126 ( $cm^2$ )
8. 100

Page 3:

9. 108 (\$), (108.00)
10. 18
11. 17 ( $cm^2$ )
12. 17

Grade Six Division

Sprint Round:

Page 1:

1. 30
2. 27
3. 22 (%)
4.  $4225 \text{ (cm}^2\text{)},$   
 $(0.4225 \text{ m}^2)$
5. 96
6. 17
7. 21
8. 50
9. 6015

Page 2:

10. 888 (\$), (888.00)
11. 5
12. 80 (km/hr)
13. 100
14.  $\frac{5}{6}, (\frac{10}{12})$
15. 250 (grams)
16. 702
17. 166 (m)
18.  $\frac{40}{77}, (\frac{80}{154}, \frac{120}{231})$

Page 3:

19. 647
20. 108
21. 205
22. 394 (cents),  
(3.94\$)
23. 122
24. 24
25. 17982
26.  $\frac{22}{4005}$

Target Round:

Page 1:

1.  $34 \text{ (cm}^2\text{)}$
2. 10 (cm)
3. 16
4. 13

Page 2:

5. 21
6.  $\frac{43}{64}, (\frac{86}{128}, \frac{172}{256})$
7. 133 (cm<sup>2</sup>)
8. 100

Page 3:

9. 88 (\$) (88.00)
10. 18
11. 200 (cm<sup>2</sup>)
12. 17

Grade Seven Division

Sprint Round:

Page 1:

- 42
- 34
- 102
- $5625 \text{ (cm}^2\text{)},$   
 $(0.5625 \text{ m}^2)$
- 64
- 4
- 216
- 50
- 52

Page 2:

- 888 (\$), (888.00)
- 5
- 80 (km/hr)
- 81
- $\frac{5}{6}, (\frac{10}{12})$
- 250 (grams)
- 702
- $1390 \text{ (m}^2\text{)}$
- $\frac{37}{77}, (\frac{74}{154}, \frac{111}{231})$

Page 3:

- 647
- 108
- 205
- 394 (cents),  
(3.94\$)
- 122
- 24
- $\frac{5}{3}, (\frac{10}{6}, \frac{15}{9})$
- $\frac{22}{4005}$

Target Round:

Page 1:

- $34 \text{ (cm}^2\text{)}$
- 16
- 16
- 32

Page 2:

- 13
- $\frac{89}{144}, (\frac{178}{288}, \frac{267}{432})$
- $147 \text{ (cm}^2\text{)}$
- 100

Page 3:

- 27 (\$) (27.00)
- 18
- $200 \text{ (cm}^2\text{)}$
- 17