



DECIMALS WITHOUT PAPER · GRADE 5 · 5.NBT.B.7 AND 5.NBT.A.2

Decimals in Your Head

Name _____ Date _____ Time _____ Score _____ / 24

Name the place before you answer. No column work, and no rewriting the numbers.

1 Make One Whole*look for the pair that fills the whole*

1. $0.7 + 0.3 =$ _____

2. $1 - 0.4 =$ _____

3. $0.85 + 0.15 =$ _____

4. $1 - 0.62 =$ _____

5. $0.45 + 0.55 =$ _____

6. $1 - 0.08 =$ _____

2 Move the Places*each ten moves every digit one place*

7. $3.4 \times 10 =$ _____

8. $0.52 \times 100 =$ _____

9. $47 \div 10 =$ _____

10. $6.3 \div 10 =$ _____

11. $0.8 \times 100 =$ _____

12. $250 \div 100 =$ _____

3 Add and Subtract by Place*tenths onto tenths, hundredths onto hundredths*

13. $1.2 + 0.35 =$ _____

14. $2.7 - 0.5 =$ _____

15. $0.46 + 0.3 =$ _____

16. $3.05 + 0.4 =$ _____

17. $1.6 - 0.25 =$ _____

18. $4.5 - 1.2 =$ _____

4 Whole Number Fact, Then the Point*do the fact you know, then place the point*

19. $0.3 \times 4 =$ _____

20. $0.6 \times 5 =$ _____

21. $2.4 \div 6 =$ _____

22. $0.25 \times 4 =$ _____

23. $1.5 \div 3 =$ _____

24. $0.9 \div 3 =$ _____



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Decimals in Your Head

Each band is one mental route. A student missing a whole band needs the route taught, not more items.

1 Make One Whole

the missing part of one, in tenths or hundredths

1. $0.7 + 0.3 = 1$

2. $1 - 0.4 = 0.6$

3. $0.85 + 0.15 = 1$

4. $1 - 0.62 = 0.38$

5. $0.45 + 0.55 = 1$

6. $1 - 0.08 = 0.92$

2 Move the Places

times ten shifts left, divide by ten shifts right

7. $3.4 \times 10 = 34$

8. $0.52 \times 100 = 52$

9. $47 \div 10 = 4.7$

10. $6.3 \div 10 = 0.63$

11. $0.8 \times 100 = 80$

12. $250 \div 100 = 2.5$

3 Add and Subtract by Place

line up the places, never the last digits

13. $1.2 + 0.35 = 1.55$

14. $2.7 - 0.5 = 2.2$

15. $0.46 + 0.3 = 0.76$

16. $3.05 + 0.4 = 3.45$

17. $1.6 - 0.25 = 1.35$

18. $4.5 - 1.2 = 3.3$

4 Whole Number Fact, Then the Point

count the places in the factors, or read the quotient as tenths

19. $0.3 \times 4 = 1.2$

20. $0.6 \times 5 = 3$

21. $2.4 \div 6 = 0.4$

22. $0.25 \times 4 = 1$

23. $1.5 \div 3 = 0.5$

24. $0.9 \div 3 = 0.3$