EPCS

65 W. Demarest Avenue

Englewood, NJ 07631

2024 - 2025 7th Grade Preparation Packet

Welcome to 7th Grade Mathematics! Our 7th Grade Mathematics Course is a comprehensive course that will provide you with the fundamental tools of mathematical understanding that will support you in future math courses. Since you will be taking 7th Grade Mathematics after successful completion of 6th Grade Mathematics, this preparation packet contains review material of the 6th grade concepts, skills, and procedures that should be mastered **BEFORE** entering 7th grade in the fall. Essentially, the packet provides a review of the major 6th grade topics as well as a preview of the 7th grade topics.

Here are some websites you might find particularly useful:

- iReady.com
- http://www.khanacademy.org/
- www.ixl.com/math/
- www.brainpop.com
- www.geogebra.org
- www.math-aids.com
- www.jeopardylabs.com
- www.kutasoftware.com

This collection of problems will identify those concepts you have mastered as well as those you will need to practice and review. You are expected to seek extra help immediately on those concepts with which you have not demonstrated proficiency. Be resourceful - use the online resources.

***** Solve these problems without the use of a calculator and show all work.*****

You will be responsible for handing in the completed packet with all work shown on the first day of school. The problems here are very representative of the types of items you will need to have mastered BEFORE 7th Grade Math… so we strongly encourage you to include this packet in your summer festivities! Good luck and enjoy!

Name: _____ Parent Signature: _____

7th Grade Preparation Packet Score: _____/50

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Compute with Percents—Skills Practice

Name: _____

Find the percent.

Form A

1. 30% of 250 = _____
2. 90% of 130 = _____
3. 15% of 80 = _____
4. 10% of 70 = _____
5. 110% of 630 = _____
6. 125% of 84 = _____
7. 20% of 75 = _____
8. 15% of 40 = _____
9. 25% of 60 = _____
10. 70% of 120 = _____
11. 80% of 80 = _____
12. 50% of 82 = _____
13. 29% of 300 = _____
14. 11% of 100 = _____
15. 75% of 32 = _____
16. 50% of 196 = _____
17. 100% of 90 = _____
18. 10% of 720 = _____
19. 80% of 25 = _____
20. 60% of 70 = _____
21. 8% of 200 = _____
22. 150% of 80 = _____
23. 35% of 40 = _____
24. 40% of 120 = _____

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Compute with Percents—Skills Practice

Name: _____

Use the part and the percent to find the whole. **Form A**

1. 6 = 10% of _____
2. 62 = 50% of _____
3. 15 = 25% of _____
4. 12 = 48% of _____
5. 3 = 30% of _____
6. 8 = 40% of _____
7. 49 = 70% of _____
8. 52 = 26% of _____
9. 50 = 20% of _____
10. 9 = 75% of _____
11. 32 = 80% of _____
12. 11 = 100% of _____
13. 150 = 50% of _____
14. 81 = 90% of _____
15. 186 = 62% of _____
16. 12 = 20% of _____
17. 24 = 75% of _____
18. 40 = 40% of _____
19. 35 = 70% of _____
20. 27 = 10% of _____
21. 98 = 49% of _____
22. 80 = 40% of _____
23. 15 = 15% of _____
24. 30 = 75% of _____

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Compute with Percents—Repeated Reasoning

Name: _____

Find patterns in percents.

Set A

1. 60% of 20 = _____
2. 60% of 30 = _____
3. 60% of 40 = _____
4. 50% of 20 = _____
5. 50% of 30 = _____
6. 50% of 40 = _____
7. 40% of 20 = _____
8. 40% of 30 = _____
9. 40% of 40 = _____
10. 30% of 20 = _____
11. 30% of 30 = _____
12. 30% of 40 = _____

Set B

1. 8% of 25 = _____
2. 16% of 25 = _____
3. 24% of 25 = _____
4. 8% of 50 = _____
5. 16% of 50 = _____
6. 24% of 50 = _____
7. 8% of 75 = _____
8. 16% of 75 = _____
9. 24% of 75 = _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Compute with Percents—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1. 25% of 4 = _____
2. 25% of 40 = _____
3. 25% of 400 = _____
4. 50% of 4 = _____
5. 50% of 40 = _____
6. 50% of 400 = _____
7. 75% of 4 = _____
8. 75% of 40 = _____
9. 75% of 400 = _____

Set B

1. 100% of 300 = _____
2. 10% of 300 = _____
3. 1% of 300 = _____
4. 200% of 300 = _____
5. 20% of 300 = _____
6. 2% of 300 = _____
7. 400% of 300 = _____
8. 40% of 300 = _____
9. 4% of 300 = _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Compute with Percents—Repeated Reasoning

Name: _____

Find patterns using the distributive property.

Set A

1. 30% of 10 = _____
2. 20% of 10 = _____
3. 50% of 10 = _____
4. 30% of 20 = _____
5. 20% of 20 = _____
6. 50% of 20 = _____
7. 30% of 30 = _____
8. 20% of 30 = _____
9. 50% of 30 = _____

Set B

1. 2% of 50 = _____
2. 4% of 50 = _____
3. 6% of 50 = _____
4. 20% of 50 = _____
5. 40% of 50 = _____
6. 60% of 50 = _____
7. 200% of 50 = _____
8. 400% of 50 = _____
9. 600% of 50 = _____
10. 220% of 50 = _____
11. 440% of 50 = _____
12. 660% of 50 = _____
13. 222% of 50 = _____
14. 444% of 50 = _____
15. 666% of 50 = _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Divide Fractions—Skills Practice

Name: _____

Find the quotient.

Form A

1. $\frac{2}{3} \div \frac{3}{6} =$ _____
2. $\frac{1}{2} \div \frac{1}{6} =$ _____
3. $\frac{2}{2} \div \frac{5}{6} =$ _____
4. $\frac{1}{4} \div \frac{1}{6} =$ _____
5. $\frac{2}{4} \div \frac{3}{6} =$ _____
6. $\frac{7}{4} \div \frac{3}{2} =$ _____
7. $\frac{8}{5} \div \frac{4}{10} =$ _____
8. $\frac{2}{3} \div \frac{5}{6} =$ _____
9. $\frac{5}{8} \div \frac{3}{4} =$ _____
10. $\frac{5}{4} \div \frac{10}{12} =$ _____
11. $\frac{4}{6} \div \frac{3}{6} =$ _____
12. $\frac{5}{4} \div \frac{1}{8} =$ _____
13. $\frac{1}{8} \div \frac{5}{4} =$ _____
14. $\frac{3}{2} \div \frac{6}{5} =$ _____
15. $\frac{9}{4} \div \frac{3}{2} =$ _____
16. $\frac{3}{10} \div \frac{6}{5} =$ _____
17. $\frac{6}{4} \div \frac{2}{8} =$ _____
18. $\frac{4}{8} \div \frac{5}{5} =$ _____

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Divide Fractions—Repeated Reasoning

Name: _____

Find patterns in fraction division.

Set A

1. $\frac{1}{2} \div \frac{1}{2} =$ _____
2. $\frac{3}{2} \div \frac{1}{2} =$ _____
3. $\frac{1}{2} \div \frac{1}{4} =$ _____
4. $\frac{3}{2} \div \frac{1}{4} =$ _____
5. $\frac{1}{2} \div \frac{1}{8} =$ _____
6. $\frac{3}{2} \div \frac{1}{8} =$ _____
7. $\frac{1}{2} \div \frac{1}{16} =$ _____
8. $\frac{3}{2} \div \frac{1}{16} =$ _____

Set B

1. $\frac{1}{2} \div \frac{1}{4} =$ _____
2. $\frac{3}{2} \div \frac{1}{4} =$ _____
3. $\frac{1}{2} \div \frac{2}{4} =$ _____
4. $\frac{3}{2} \div \frac{2}{4} =$ _____
5. $\frac{1}{2} \div \frac{3}{4} =$ _____
6. $\frac{3}{2} \div \frac{3}{4} =$ _____
7. $\frac{1}{2} \div \frac{4}{4} =$ _____
8. $\frac{3}{2} \div \frac{4}{4} =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Divide Whole Numbers—Skills Practice

Name: _____

Find the quotient.

Form A

1. $61\overline{)793}$
2. $25\overline{)675}$
3. $46\overline{)506}$
4. $30\overline{)510}$
5. $41\overline{)328}$
6. $80\overline{)5,680}$
7. $35\overline{)2,170}$
8. $22\overline{)7,040}$
9. $72\overline{)7,488}$
10. $63\overline{)53,865}$
11. $75\overline{)72,525}$
12. $40\overline{)9,240}$
13. $44\overline{)54,164}$
14. $15\overline{)15,810}$
15. $12\overline{)17,472}$

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Divide Whole Numbers—Repeated Reasoning

Name: _____

Find place value patterns.

Set A

1. $10\overline{)16{,}000}$
2. $100\overline{)16{,}000}$
3. $1{,}000\overline{)16{,}000}$
4. $5\overline{)16{,}000}$
5. $50\overline{)16{,}000}$
6. $500\overline{)16{,}000}$

Set B

1. $120 \div 10 =$ _____
2. $1{,}200 \div 10 =$ _____
3. $12{,}000 \div 10 =$ _____
4. $120 \div 20 =$ _____
5. $1{,}200 \div 20 =$ _____
6. $12{,}000 \div 20 =$ _____
7. $120 \div 30 =$ _____
8. $1{,}200 \div 30 =$ _____
9. $12{,}000 \div 30 =$ _____
10. $120 \div 40 =$ _____
11. $1{,}200 \div 40 =$ _____
12. $12{,}000 \div 40 =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Add Decimals—Skills Practice

Name: _____

Add.

Form A

1. 22.098 + 14.103 = _____
2. 6.07 + 12.149 = _____
3. 3.1 + 4.904 = _____
4. 8.062 + 7.189 = _____
5. 11.802 + 32.4 = _____
6. 13.765 + 6.23 = _____
7. 76.147 + 5.07 = _____
8. 63.98 + 0.031 = _____
9. 0.093 + 0.02 = _____
10. 5.2 + 0.871 = _____
11. 41.82 + 7.593 = _____
12. 2.76 + 27.959 = _____
13. 8.91 + 0.092 = _____
14. 33.99 + 24.002 = _____
15. 1.099 + 0.038 = _____
16. 2.08 + 0.671 = _____
17. 9.7 + 0.345 = _____
18. 1.999 + 52.651 = _____
19. 17.76 + 8 + 45.309 = _____
20. 68.821 + 15.34 + 1.009 = _____

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Add Decimals—Repeated Reasoning

Name: _____

Use patterns and mental math to add.

Set A

1. 1.999 + 0.001 = _____
2. 1.999 + 0.002 = _____
3. 1.999 + 0.003 = _____
4. 1.998 + 0.002 = _____
5. 1.998 + 0.003 = _____
6. 1.998 + 0.004 = _____
7. 1.997 + 0.003 = _____
8. 1.997 + 0.004 = _____
9. 1.997 + 0.005 = _____

Set B

1. 2.007 + 0.003 = _____
2. 2.008 + 0.003 = _____
3. 2.009 + 0.003 = _____
4. 2.008 + 0.002 = _____
5. 2.009 + 0.002 = _____
6. 2.010 + 0.002 = _____
7. 2.009 + 0.001 = _____
8. 2.010 + 0.001 = _____
9. 2.011 + 0.001 = _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Subtract Decimals—Skills Practice

Name: _____

Subtract. **Form A**

1. $0.09 - 0.072 =$ _____
2. $82.456 - 50.03 =$ _____
3. $53.5 - 0.094 =$ _____
4. $12.091 - 0.132 =$ _____
5. $0.8 - 0.341 =$ _____
6. $54.784 - 23.8 =$ _____
7. $25.76 - 4.213 =$ _____
8. $27.261 - 18 =$ _____
9. $10.002 - 0.004 =$ _____
10. $6.365 - 0.245 =$ _____
11. $4.598 - 2.46 =$ _____
12. $36.7 - 0.062 =$ _____
13. $68 - 6.218 =$ _____
14. $18.25 - 6.342 =$ _____
15. $1.087 - 0.3 =$ _____
16. $0.076 - 0.02 =$ _____
17. $48.1 - 9.354 =$ _____
18. $56.285 - 7.293 =$ _____
19. $2.89 - 0.089 =$ _____
20. $82.138 - 6.4 =$ _____
21. $21.98 - 13.761 =$ _____

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Subtract Decimals—Repeated Reasoning

Name: _____

Use patterns and mental math to subtract.

Set A

1. $8 - 0.1 =$ _____
2. $8 - 0.2 =$ _____
3. $8 - 0.3 =$ _____
4. $18 - 0.1 =$ _____
5. $18 - 0.2 =$ _____
6. $18 - 0.3 =$ _____
7. $108 - 0.1 =$ _____
8. $108 - 0.2 =$ _____
9. $108 - 0.3 =$ _____

Set B

1. $20 - 0.01 =$ _____
2. $20 - 0.02 =$ _____
3. $20 - 0.03 =$ _____
4. $20 - 1.01 =$ _____
5. $20 - 1.02 =$ _____
6. $20 - 1.03 =$ _____
7. $20 - 2.01 =$ _____
8. $20 - 2.02 =$ _____
9. $20 - 2.03 =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Multiply Decimals—Skills Practice

Name: _____

Multiply.

Form A

1. 2.1×0.76

2. 52.4×4.5

3. 4.52×8.9

4. 5.8×7.4

5. 0.97×0.23

6. 63.52×4.7

7. 2.7×0.25

8. 8.35×0.46

9. 0.813×4.6

10. 0.83×5.8

11. 12.3×6.5

12. 0.78×42.5

13. 912.5×0.85

14. 3.6×8.14

15. 0.64×31.8

16. 5.6×21.42

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Multiply Decimals—Repeated Reasoning

Name: _____

Find patterns in multiplying decimals.

Set A

1. $0.1 \times 0.3 =$ _____
2. $0.1 \times 0.6 =$ _____
3. $0.2 \times 0.3 =$ _____
4. $0.2 \times 0.6 =$ _____
5. $0.4 \times 0.3 =$ _____
6. $0.4 \times 0.6 =$ _____
7. $0.8 \times 0.3 =$ _____
8. $0.8 \times 0.6 =$ _____
9. $1.6 \times 0.3 =$ _____
10. $1.6 \times 0.6 =$ _____
11. $3.2 \times 0.3 =$ _____
12. $3.2 \times 0.6 =$ _____

Set B

1. 34.5×5
2. 34.5×0.5
3. 34.5×0.05
4. 34.5×0.005
5. 3.45×5
6. 3.45×0.5
7. 3.45×0.05
8. 3.45×0.005
9. 0.345×5
10. 0.345×0.5
11. 0.345×0.05
12. 0.345×0.005

Describe a pattern you see in one of the sets of problems above.

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Divide Decimals—Skills Practice

Name: _____

Divide.

Form A

1. $0.08\overline{)3.84}$
2. $0.16\overline{)6.08}$
3. $5.9\overline{)2.183}$
4. $112.5\overline{)7.2}$
5. $614.5\overline{)3.687}$
6. $2.68\overline{)9.648}$
7. $5.9\overline{)10.62}$
8. $2.6\overline{)137.8}$
9. $1.486\overline{)66.87}$
10. $2.357\overline{)68.353}$
11. $2.85\overline{)267.9}$
12. $0.368\overline{)33.856}$
13. $1.125\overline{)240.3}$
14. $0.3\overline{)8.37}$
15. $0.008\overline{)2.3}$
16. $0.36\overline{)0.621}$

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Divide Decimals—Repeated Reasoning

Name: _____

Compare dividends and quotients to find patterns.

Set A

1. $0.5\overline{)2}$
2. $0.5\overline{)4}$
3. $0.5\overline{)8}$
4. $0.5\overline{)20}$
5. $0.5\overline{)40}$
6. $0.5\overline{)80}$
7. $0.5\overline{)200}$
8. $0.5\overline{)400}$
9. $0.5\overline{)800}$

Set B

1. $1 \div 0.2 =$ _____
2. $2 \div 0.2 =$ _____
3. $3 \div 0.2 =$ _____
4. $10 \div 0.2 =$ _____
5. $20 \div 0.2 =$ _____
6. $30 \div 0.2 =$ _____
7. $100 \div 0.2 =$ _____
8. $200 \div 0.2 =$ _____
9. $300 \div 0.2 =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Greatest Common Factors–Skills Practice

Name: _____

Find the greatest common factor.

Form A

1. 24 and 20: _____
2. 36 and 42: _____
3. 16 and 32: _____
4. 12 and 8: _____
5. 80 and 70: _____
6. 50 and 14: _____
7. 100 and 75: _____
8. 15 and 18: _____
9. 14 and 21: _____
10. 40 and 60: _____
11. 25 and 45: _____
12. 33 and 77: _____
13. 36 and 81: _____
14. 64 and 40: _____
15. 35 and 28: _____
16. 17 and 34: _____
17. 15 and 28: _____
18. 3 and 69: _____
19. 18 and 28: _____
20. 27 and 63: _____
21. 20 and 45: _____
22. 54 and 24: _____
23. 18 and 45: _____
24. 72 and 64: _____

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Least Common Multiples—Skills Practice

Name: _____

Find the least common multiple. **Form A**

1. 4 and 7: _____
2. 5 and 6: _____
3. 3 and 8: _____
4. 4 and 6: _____
5. 6 and 9: _____
6. 10 and 6: _____
7. 2 and 8: _____
8. 3 and 4: _____
9. 5 and 7: _____
10. 8 and 9: _____
11. 12 and 8: _____
12. 8 and 10: _____
13. 9 and 7: _____
14. 2 and 11: _____
15. 6 and 12: _____
16. 11 and 9: _____
17. 9 and 4: _____
18. 3 and 6: _____
19. 5 and 9: _____
20. 11 and 8: _____
21. 10 and 5: _____
22. 13 and 39: _____
23. 4 and 16: _____
24. 7 and 6: _____

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Exponents—Skills Practice

Name: _____

Evaluate the expression.

Form A

1. $5^2 =$ _____
2. $3^2 + 7^2 =$ _____
3. $4^2 \times 3^3 =$ _____
4. $2^3(4^3 + 6^2) =$ _____
5. $7^3 =$ _____
6. $4^4(1^8 + 2^2) =$ _____
7. $4^3 + 5^4 =$ _____
8. $\frac{9^2 - 7^2}{2^4} =$ _____
9. $8^3 =$ _____
10. $3^5 + 2^7 =$ _____
11. $9^2 =$ _____
12. $2^6 - 3^3 =$ _____
13. $\frac{10^2 + 3^2}{1^{13}} =$ _____
14. $3^4 =$ _____
15. $\frac{6^2 - 2^5}{2^2} =$ _____
16. $5^3 - 2^3 =$ _____
17. $8^2 \times 6^2 =$ _____
18. $\frac{3^3 + 6^2}{3^2} =$ _____
19. $2^5 =$ _____
20. $\frac{10^3}{2^2 + 6^2} =$ _____
21. $6^3 =$ _____

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Exponents—Repeated Reasoning

Name: _____

Look for patterns in expressions with exponents.

Set A

1. $10^2 \times 10^1 =$ _____
2. $10^2 \times 10^2 =$ _____
3. $10^2 \times 10^3 =$ _____
4. $10^3 \times 10^1 =$ _____
5. $10^3 \times 10^2 =$ _____
6. $10^3 \times 10^3 =$ _____
7. $10^4 \times 10^1 =$ _____
8. $10^4 \times 10^2 =$ _____
9. $10^4 \times 10^3 =$ _____

Set B

1. $\frac{10^7}{10} =$ _____
2. $\frac{10^7}{10^2} =$ _____
3. $\frac{10^7}{10^3} =$ _____
4. $\frac{10^8}{10} =$ _____
5. $\frac{10^8}{10^2} =$ _____
6. $\frac{10^8}{10^3} =$ _____
7. $\frac{10^9}{10} =$ _____
8. $\frac{10^9}{10^2} =$ _____
9. $\frac{10^9}{10^3} =$ _____

Describe a pattern you see in one of the sets of problems above.

_____

_____

_____

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Order of Operations—Skills Practice

Name: _____

Evaluate the expression.

Form A

1. $7 + 6 \times 2 =$ _____
2. $0.25 \times 16 + 4 =$ _____
3. $26 - 3 \times 4 =$ _____
4. $18 + 14 \times 0.5 =$ _____
5. $18 \div 2 + 7 =$ _____
6. $8 + 6 \times 3^2 =$ _____
7. $18 - 8^2 \div 4 =$ _____
8. $12 - 8 \times 0.25 =$ _____
9. $9 + 25 \div 5^2 =$ _____
10. $6^2 \div 9 + 3 =$ _____
11. $48 \div 0.5 + 2 =$ _____
12. $42 + 0.2 \times 30 =$ _____
13. $36 \div 3 \times 4 =$ _____
14. $131 - 4 \times 2^3 =$ _____
15. $56 - 0.3 \times 40 =$ _____
16. $32 - 8 + 11 =$ _____
17. $96 \div 2^4 + 32 =$ _____
18. $35 - 0.5 \times 56 =$ _____
19. $10^2 \div 5 \times 4 =$ _____
20. $3^3 + 18 \div 3 =$ _____

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Evaluate Expressions with Variables—Skills Practice

Name: _____

Evaluate the expression.

Form A

1. $s = 7; 6s^2 =$ _____
2. $x = 3; 4x^3 + 2 =$ _____
3. $n = \frac{1}{8}; \frac{2}{n} =$ _____
4. $x = \frac{1}{6}; 18x + 4 =$ _____
5. $x = 7; \frac{4x + 8}{2} =$ _____
6. $p = 0.5; 42 - 42p =$ _____
7. $x = 0.25; 48x - 3 =$ _____
8. $a = 3; a^3 =$ _____
9. $y = 84; \frac{y}{4} - 15 =$ _____
10. $c = 35; \frac{9c}{5} + 32 =$ _____
11. $n = 0.5; \frac{8}{n} + 8 =$ _____
12. $x = 3; 169 - 2x^4 =$ _____
13. $a = 3; 12a^2 =$ _____
14. $w = \frac{1}{5}; 38 - 15w =$ _____
15. $x = 9; 8x + 3 =$ _____
16. $m = 2; \frac{16}{2m} =$ _____
17. $x = 7; x^2 - 5^2 =$ _____
18. $p = 25; \frac{p}{100}(120) =$ _____

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Equivalent Expressions—Skills Practice

Name: _____

Use the distributive property to write an equivalent expression. **Form A**

1. $5x + 20 =$ _____
2. $3(x + 6) =$ _____
3. $8(4n + 3) =$ _____
4. $7x - 35 =$ _____
5. $12x - 6 =$ _____
6. $20p + 16 =$ _____
7. $9(2x + 9) =$ _____
8. $5(6 + 13a) =$ _____
9. $36 + 9y =$ _____
10. $6(c + 8) =$ _____
11. $7(n - 3) =$ _____
12. $2(12 + 10x) =$ _____
13. $21 + 15a =$ _____
14. $4(5 - 4w) =$ _____
15. $32 - 12x =$ _____
16. $10(2m - 7) =$ _____
17. $8 + 36x =$ _____
18. $11(6 + 4p) =$ _____
19. $25(4n + 8) =$ _____
20. $20w + 30 =$ _____

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