

Note: Scholars are allowed to use this conversion chart on the STAAR test

STAAR GRADE 5 MATHEMATICS REFERENCE MATERIALS

LENGTH

Customary

- 1 mile (mi) = 1,760 yards (yd)
- 1 yard (yd) = 3 feet (ft)
- 1 foot (ft) = 12 inches (in.)

Metric

- 1 kilometer (km) = 1,000 meters (m)
- 1 meter (m) = 100 centimeters (cm)
- 1 centimeter (cm) = 10 millimeters (mm)

VOLUME AND CAPACITY

Customary

- 1 gallon (gal) = 4 quarts (qt)
- 1 quart (qt) = 2 pints (pt)
- 1 pint (pt) = 2 cups (c)
- 1 cup (c) = 8 fluid ounces (fl oz)

Metric

- 1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

- 1 ton (T) = 2,000 pounds (lb)
- 1 pound (lb) = 16 ounces (oz)

Metric

- 1 kilogram (kg) = 1,000 grams (g)
- 1 gram (g) = 1,000 milligrams (mg)

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<p>1. Convert 3 miles to yards.</p>	<p>2. Convert 29 feet to inches.</p>	<p>3. Convert 56 fluid ounces to cups.</p>
<p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>5.7.A – Measurement: Customary Conversions – PS</p>

Unit: 5th – Measurement & Data Analysis

Lesson: 5.7.A – Measurement: Customary Conversions

Problem Set 1

Tip: Bigger → Smaller = Multiply; Smaller → Bigger = Divide

1 3 miles X 1,760 yards per mile = 5,280 yards	2 29 ft X 12 ins per ft = 348 ins	3 56 fl ozs ÷ 8 ozs per cup = 7 cups	4 210 ft ÷ 3 ft per yrd = 70 yards	5 5 tons X 2,000 lbs per ton = 10,000 lbs	6 64 pts ÷ 2 pts per qt = 32 qts 32 qts ÷ 4 qts per gal = 8 gals
7 125 yds X 3 ft per yrd = 375 feet	8 240 ins ÷ 12 in per ft = 20 ft	9 80 gals X 4 qts per gal = 320 qts	10 66 pts ÷ 2 pts per qt = 33 qts	11 5 lbs X 16 ozs per lb = 80 ozs	12 72 cups ÷ 2 cups per pt = 36 pts 36 pts ÷ 2 pts per qt = 18 qts
13 5 ynds X 3 ft per yrd = 15 ft 15 ft X 12 in per ft = 180 ins	14 150 pts X 2 cups per pt = 300 cups	15 10 tons X 2,000 lbs per ton = 20,000 lbs	16 84 ins ÷ 12 in per ft = 7 ft	17 32 qts ÷ 4 qts per gal = 8 gals	18 80 pts ÷ 2 pts per qt = 40 qts
19 11 ft X 12 ins per ft = 132 ins	20 6 ynds X 3 ft per yrd = 18 ft 18 ft X 12 ins per ft = 216 ins	21 24 fl ozs ÷ 8 ozs per cup = 3 cups	22 160 fl ozs ÷ 8 ozs per cup = 20 cups 20 cups ÷ 2 cups per pt = 10 pts	23 99 ft ÷ 3 ft per yrd = 33 yds	24 200 ynds X 3 ft per yrd = 600 ft
25 28 cups ÷ 2 cups per pt = 14 pts 14 pts ÷ 2 pts per qt = 7 qts	26 32 pts ÷ 2 pts per qt = 16 qts 16 qts ÷ 4 qts per gal = 4 gals	27 15 gals X 4 qts per gal = 60 qts	28 100 yds X 3 ft per yrd = 300 ft 300 ft X 12 in per ft = 3,600 ins	29 2 miles X 1,760 ynds per mile = 3,520 ynds	30 27 ft ÷ 3 ft per yrd = 9 ynds

<p>7. Convert 125 yards to feet.</p>	<p>8. Convert 240 inches to feet.</p>	<p>9. Convert 80 gallons to quarts.</p>
<p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>5.7.A – Measurement: Customary Conversions – PS</p>

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Problem Set 2

Tip: Bigger → Smaller = Multiply; Smaller → Bigger = Divide

1 3 miles X 1,760 yards per mile = 5,280 yards	2 29 ft X 12 ins per ft = 348 ins	3 56 fl ozs ÷ 8 ozs per cup = 7 cups	4 210 ft ÷ 3 ft per yrd = 70 yards	5 5 tons X 2,000 lbs per ton = 10,000 lbs	6 64 pts ÷ 2 pts per qt = 32 qts 32 qts ÷ 4 qts per gal = 8 gals
7 125 yds X 3 ft per yrd = 375 feet	8 240 ins ÷ 12 in per ft = 20 ft	9 80 gals X 4 qts per gal = 320 qts	10 66 pts ÷ 2 pts per qt = 33 qts	11 5 lbs X 16 ozs per lb = 80 ozs	12 72 cups ÷ 2 cups per pt = 36 pts 36 pts ÷ 2 pts per qt = 18 qts
13 5 yds X 3 ft per yrd = 15 ft 15 ft X 12 in per ft = 180 ins	14 150 pts X 2 cups per pt = 300 cups	15 10 tons X 2,000 lbs per ton = 20,000 lbs	16 84 ins ÷ 12 in per ft = 7 ft	17 32 qts ÷ 4 qts per gal = 8 gals	18 80 pts ÷ 2 pts per qt = 40 qts
19 11 ft X 12 ins per ft = 132 ins	20 6 yds X 3 ft per yrd = 18 ft 18 ft X 12 ins per ft = 216 ins	21 24 fl ozs ÷ 8 ozs per cup = 3 cups	22 160 fl ozs ÷ 8 ozs per cup = 20 cups 20 cups ÷ 2 cups per pt = 10 pts	23 99 ft ÷ 3 ft per yrd = 33 yds	24 200 yds X 3 ft per yrd = 600 ft
25 28 cups ÷ 2 cups per pt = 14 pts 14 pts ÷ 2 pts per qt = 7 qts	26 32 pts ÷ 2 pts per qt = 16 qts 16 qts ÷ 4 qts per gal = 4 gals	27 15 gals X 4 qts per gal = 60 qts	28 100 yds X 3 ft per yrd = 300 ft 300 ft X 12 in per ft = 3,600 ins	29 2 miles X 1,760 yds per mile = 3,520 yds	30 27 ft ÷ 3 ft per yrd = 9 yds

<p>13. Convert 5 yards to inches.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>14. Convert 150 pints to cups.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>15. Convert 10 tons to pounds.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>
<p>16. Convert 84 inches to feet.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>17. Convert 32 quarts to gallons.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>18. Convert 80 pints to quarts.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>

Unit: 5th – Measurement & Data Analysis

Lesson: 5.7.A – Measurement: Customary Conversions

Problem Set 3

Tip: Bigger → Smaller = Multiply; Smaller → Bigger = Divide

1 3 miles X 1,760 yards per mile = 5,280 yards	2 29 ft X 12 ins per ft = 348 ins	3 56 fl ozs ÷ 8 ozs per cup = 7 cups	4 210 ft ÷ 3 ft per yrd = 70 yards	5 5 tons X 2,000 lbs per ton = 10,000 lbs	6 64 pts ÷ 2 pts per qt = 32 qts 32 qts ÷ 4 qts per gal = 8 gals
7 125 yds X 3 ft per yrd = 375 feet	8 240 ins ÷ 12 in per ft = 20 ft	9 80 gals X 4 qts per gal = 320 qts	10 66 pts ÷ 2 pts per qt = 33 qts	11 5 lbs X 16 ozs per lb = 80 ozs	12 72 cups ÷ 2 cups per pt = 36 pts 36 pts ÷ 2 pts per qt = 18 qts
13 5 yds X 3 ft per yrd = 15 ft 15 ft X 12 in per ft = 180 ins	14 150 pts X 2 cups per pt = 300 cups	15 10 tons X 2,000 lbs per ton = 20,000 lbs	16 84 ins ÷ 12 in per ft = 7 ft	17 32 qts ÷ 4 qts per gal = 8 gals	18 80 pts ÷ 2 pts per qt = 40 qts
19 11 ft X 12 ins per ft = 132 ins	20 6 yds X 3 ft per yrd = 18 ft 18 ft X 12 ins per ft = 216 ins	21 24 fl ozs ÷ 8 ozs per cup = 3 cups	22 160 fl ozs ÷ 8 ozs per cup = 20 cups 20 cups ÷ 2 cups per pt = 10 pts	23 99 ft ÷ 3 ft per yrd = 33 yds	24 200 yds X 3 ft per yrd = 600 ft
25 28 cups ÷ 2 cups per pt = 14 pts 14 pts ÷ 2 pts per qt = 7 qts	26 32 pts ÷ 2 pts per qt = 16 qts 16 qts ÷ 4 qts per gal = 4 gals	27 15 gals X 4 qts per gal = 60 qts	28 100 yds X 3 ft per yrd = 300 ft 300 ft X 12 in per ft = 3,600 ins	29 2 miles X 1,760 yds per mile = 3,520 yds	30 27 ft ÷ 3 ft per yrd = 9 yds

<p>19. Convert 11 feet to inches.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>20. Convert 6 yards to inches.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>21. Convert 24 fluid ounces to cups.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>
<p>22. Convert 160 fluid ounces to pints.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>23. Convert 99 feet to yards.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>24. Convert 200 yards to feet.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>

Unit: 5th – Measurement & Data Analysis

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Problem Set 4

Tip: Bigger → Smaller = Multiply; Smaller → Bigger = Divide

1 3 miles X 1,760 yards per mile = 5,280 yards	2 29 ft X 12 ins per ft = 348 ins	3 56 fl ozs ÷ 8 ozs per cup = 7 cups	4 210 ft ÷ 3 ft per yrd = 70 yards	5 5 tons X 2,000 lbs per ton = 10,000 lbs	6 64 pts ÷ 2 pts per qt = 32 qts 32 qts ÷ 4 qts per gal = 8 gals
7 125 yds X 3 ft per yrd = 375 feet	8 240 ins ÷ 12 in per ft = 20 ft	9 80 gals X 4 qts per gal = 320 qts	10 66 pts ÷ 2 pts per qt = 33 qts	11 5 lbs X 16 ozs per lb = 80 ozs	12 72 cups ÷ 2 cups per pt = 36 pts 36 pts ÷ 2 pts per qt = 18 qts
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<p>25. Convert 28 cups to quarts.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>26. Convert 32 pints to gallons.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>27. Convert 15 gallons to quarts.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>
<p>28. Convert 100 yards to inches.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>29. Convert 2 miles to yards.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>	<p>30. Convert 27 feet to yards.</p> <p>5.7.A – Measurement: Customary Conversions – PS</p>

Unit: 5th – Measurement & Data Analysis

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Problem Set 5

Tip: Bigger → Smaller = Multiply; Smaller → Bigger = Divide

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