## Kigebfea Proor Ewgimples

These are half-page sized proofs for extra practice with Algebra Proofs. They are great as warm-up or review slips. These will help your students practice justifying their steps using Subsfitution and the Transitive
Property. It helps to get them used to this method of combining two different equations or lines in a proof before introducing Geometry-based proofs with diagrams. The familiar Algebra equations will help your students adjust to proof-writing in smaller steps. If you like this structure, you may also want to check out the full Proof Unit that is available for sale in my store. It is filled with printables, practice, and even a presentation to guide you and your students through proofs starting at the very beginning.


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| Given: | $a+b=2 c$  <br>  $b=c$ <br> Prove: $a=c$$\quad$Name:$\quad$ Date: |
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|  | Statement | Justification |
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| Given: | $a+b=2 c$  <br>  $b=c$ <br> Prove: $a=c$$\quad$Name:$\quad$ Date: |
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| Given: | $a+b=2 c$  <br>  $b=c$$\quad$ Name: |
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| Prove: | $a=c$ |$\quad$ Date:


|  | Statement | Justification |
| :--- | :--- | :--- |
| 1 | $a+b=2 c$ | Given |
| 2 | $b=c$ | Given |
| 3 | $a+c=2 c$ | Substitution $(1,3)$ |
| 4 | $a=c$ | Subtraction Prop. of Eq. |
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| Given: | $m+n=p$  <br>  $p=3 r$ <br> $m=n$  <br>   <br> Prove: $3 r=2 n$$\quad$ Name: |
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| Given: | $m+n=p$  <br>  $p=3 r$ <br> $m=n$ $\quad$ Name: |
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| Prove: | $3 r=2 n$ |$\quad$ Date:


|  | Statement | Justification |
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| Given: | $m+n=p$  <br>  $p=3 r$ <br> $m=n$  <br>   <br> Prove: $3 r=2 n$$\quad$ Name: |
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| Given: | $m+n=p$  <br>  $p=3 r$ <br> $m=n$ $\quad$ Name: |
| :--- | :--- | :--- |
| Prove: | $3 r=2 n$ |$\quad$ Date:


|  | Statement | Justification |
| :--- | :--- | :--- |
| 1 | $m+n=p$ | Given |
| 2 | $p=3 r$ | Given |
| 3 | $m=n$ | Given |
| 4 | $m+n=3 r$ | Transitive Prop. $(1,2)$ |
| 5 | $n+n=3 r$ | Subst. (3, 4) |
| 6 | $2 n=3 r$ | (simplified line 5) |
| 7 | $3 r=2 n$ |  |
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| Given: | $2 x=g$  <br>  $x=2 y$ <br>  $g=f$ <br>  Name: <br> Prove: $4 y=f$ |  |
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| Given: | $2 x=g$  <br>  $x=2 y$ <br>  $g=f$$\quad$ Name: |
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| Given: | $2 x=g$  <br>  $x=2 y$ <br>  $g=f$ <br> Prove: $4 y=f$$\quad$ Date: |
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|  | Statement | Justification |
| :--- | :--- | :--- |
| 1 | $2 x=g$ | Given |
| 2 | $x=2 y$ | Given |
| 3 | $g=f$ | Given |
| 4 | $2(2 y)=g$ | Substitution (1, 2) |
| 5 | $4 y=g$ | (simplified line 4) |
| 6 | $4 y=f$ | Substitution (3, 5) |
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| Given: | $2 x=g$  <br>  $x=2 y$ <br>  $g=f$ <br> Prove: $4 y=f$$\quad$ Date: |
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|  | Statement | Justification |
| :--- | :--- | :--- |
| 1 | $2 x=g$ | Given |
| 2 | $x=2 y$ | Given |
| 3 | $g=f$ | Given |
| 4 | $2(2 y)=g$ | Substitution $(1,2)$ |
| 5 | $4 y=g$ | (simplified line 4) |
| 6 | $4 y=f$ | Substitution $(3,5)$ |
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