




# Puffer Shorts



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These bubbly shorts will be THE most comfortable ones she'll have! With elastic at the waist and thighs they are the perfect piece for play. A touch of whimsy are the outside pockets which are the shape of inside pockets. For this example they are made "invisible" from the same fabric but you can incorporate another print to make them pop. The fit is extremely roomy and mid-thigh to knee length.

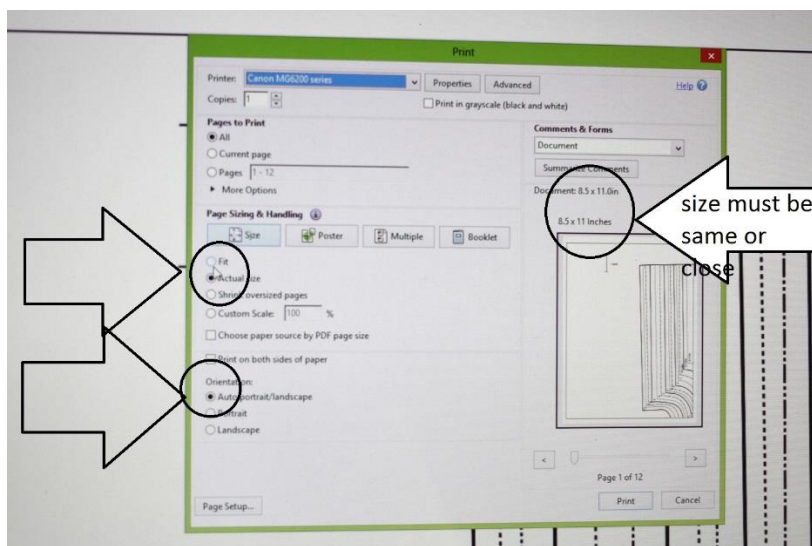
### List of required materials:

- Lightweight woven materials such as cottons, chambrays, voile, broadcloth etc.
- Sewing machine
- Overlock machine/serger or cover stitch machine - optional
- Scissors
- Regular sewing thread
- Fabric marker/pen
- Lip edge ruler or measuring tape
- Standard needle for woven material
- 1/2" band elastic
- Iron
- Double threaded hand sew needle.
- Small safety pin such as this one: 

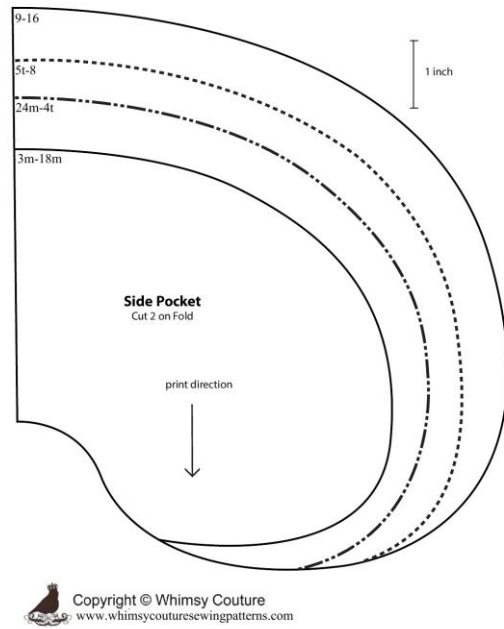
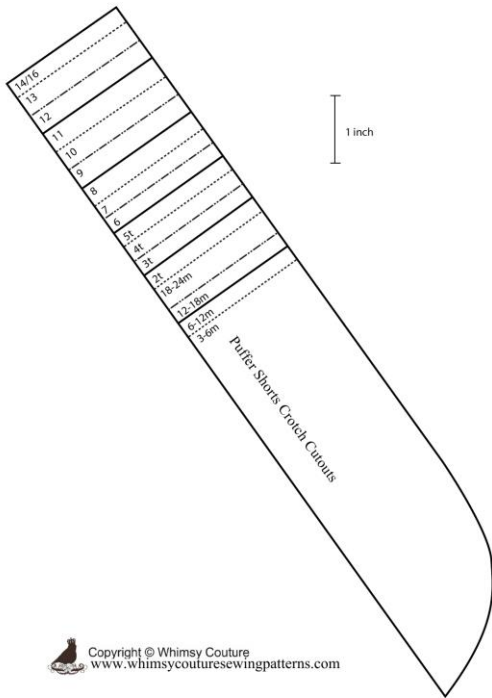
**Seam allowance:** 3/8" (or half a presser foot) unless stated otherwise

### To print the cutouts:

Set your printer to regular settings (no scaling, set to 100%) and print the pages with the crotch cutout and the pockets. Check the 1 inch print scale to make sure it is the correct scale. Here is an example of what your print preview window might show (picture from a different project):



These are the printed cutout pages.



Select the size you are making and cut out your cutouts.

**To cut out the material pieces:**

Select the size you need from the sizing chart below. This style goes by the HIP measurements so choose the size according to the hip circumference, which is the widest part of the lower body on most girls. The waist is stretchable and won't exceed the hip circumference.

**Sizing chart – based on 42 inch wide fabric WITH print direction**

W = measured across the width of the fabric from selvage to selvage and L= measured from top to bottom

size	Fits a hip circumference up to	Main shorts W x L Cut 2	Yardage for shorts	Waistband W x L Cut 2	Yardage for waistband	Leg Ruffle W x L Cut 2	Yardage for ruffles
3-6m	20"	16.5"x7.5"	1/4yd	10.5"x5"	1/4yd	16.5"x5.5"	1/4yd
6-12m	21"	19"x8"	1/3yd	10 3/4"x5"	1/4yd	19"x5 1/4"	1/4yd
12-18m	21.5"	21"x8 1/4"	1/3yd	11"x5.5"	1/4yd	21"x5 3/4"	1/4yd
18-24m	24"	22"x8.5"	1/3yd	12.5"x5"	1/4yd	22"x6"	1/4yd
2t	25"	23"x8 3/4"	2/3yd	13"x5.5"	1/4yd	23"x6"	1/3yd
3t	28"	24"x9"	2/3yd	14.5"x5 3/4"	1/4yd	24"x6"	1/3yd
4t	29"	25"x9 1/4"	2/3yd	15"x6"	1/4yd	25"x6"	1/3yd
5t	32"	26"x9.5"	2/3yd	16.5"x6 1/4"	1/4yd	26"x6"	1/3yd
6	33"	27"x9 3/4"	2/3yd	17"x6.5"	1/4yd	27"x6"	1/3yd
7	34"	27.5"x10"	2/3yd	17.5"x6.5"	1/4yd	27.5"x6"	1/3yd
8	35"	28"x10.5"	2/3yd	18"x6.5"	1/4yd	28"x6"	1/3yd
9	36"	28.5"x11"	2/3yd	18.5"x6.5"	1/4yd	28.5"x6"	1/3yd
10	37"	29"x11.5"	3/4yd	19"x6.5"	1/4yd	29"x6"	1/3yd
11	38"	29.5"x12"	1yd	19.5"x6.5"	1/4yd	29.5"x6"	1/3yd
12	39"	30"x12.5"	1yd	20"x6.5"	1/4yd	30"x6.5"	3/8yd
13	39.5"	30 1/4"x13.5"	1yd	20 1/4"x6.5"	1/4yd	30 1/4"x6.5"	3/8yd
14/16	40"	30.5"x14.5"	1yd	20.5"x6.5"	1/4yd	30.5"x6.5"	3/8yd

Size	Waist elastic $\frac{1}{2}$ " Cut 1	Leg elastic $\frac{1}{2}$ " Cut 2	Yardage for pockets (fold fabric in half and cut 2 pocket pieces on fold)
3-6m	16.5"	10"	1/4yd
6-12m	17"	10.5"	1/4yd
12-18m	18"	11"	1/4yd
18-24m	19"	11 $\frac{1}{4}$ "	1/4yd
2t	19.5"	11.5"	1/4yd
3t	20"	11 $\frac{3}{4}$ "	1/4yd
4t	20.5"	12"	1/4yd
5t	21"	12.5"	1/4yd
6	21.5"	13"	1/4yd
7	22"	14"	1/4yd
8	22.5"	15"	1/4yd
9	23"	16"	1/4yd
10	24"	16.5"	1/4yd
11	25.5"	17"	1/4yd
12	27.5"	17.5"	1/4yd
13	30"	18"	1/4yd
14/16	31"	11"	1/4yd

**These are the pieces you have cut out:**

2 leg pieces



2 waist bands



2 leg bands



4 pocket pieces (which got cut on the fabric fold, you'll have 1 set for one side and another set for the other side):



Place one pocket piece on top of the other right sides together. Sew along the dashed lines leaving a 2" opening to turn.



Trim half of the seams allowance off on the curved edges only and clip all curves and upper corner. Repeat with the other pocket pieces.



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Turn the pockets right side and and press. Sew the straight side closed with a 1/8" allowance. Backstitch the beginning and end:



Your pockets will now look like this:



**To cut out the crotch:**

Fold the leg piece over so the fold is on the left. Place the template in the upper right corner, aligning the long straight template edge with the fabric edge. Pin and cut around the template. Repeat with the other leg.



Discard the fabric piece you have cut out. This is your leg piece now.





This is your leg piece unfolded. You will have two of them.



**To make the leg bands:**

Fold your casing piece in half lengthwise with wrong sides together and press.



Attaching the leg band:

Lay the leg band with raw edges lined up with the folded edge on the bottom. Your print direction of the leg band (if applicable) is facing the right way.



Flip the band up so it is on top of the leg piece. Match up the raw edges on the bottom and pin. Sew them together along the dashed line.



Zig zag or serge the raw edge.



**To make the leg band casing:**

Then measure  $\frac{1}{2}$ " down from the seam and draw a line across with a fabric marker and the lip edge ruler. Now draw a line  $\frac{3}{4}$ " down from your first line. Sew along the dashed lines.

Fold the leg band down and fold the seam underneath up, then press on the right side. Top stitch where both fabrics meet with a  $\frac{1}{8}$ " seam allowance:



This should now be your leg piece. Repeat with the other leg piece and leg band.



(forgive me but the bottom casing seam is missing in the above picture!!)

**To create the front and back rise:**

Place both leg pieces with wrong sides together and with a ruler at one corner of the waist edge and 1" down on the other corner. Trim off this DIAGONAL edge through both layers with your rotary cutter or draw a line with your fabric marker/pen and then cut with scissors.



This is your piece after cutting the rise:



**To place the pockets:**

Fold leg piece in half with right sides out. Your lower cut front rise faces to the left:



Line the straight edge of the pocket up with the folded side seam of the leg. The pocket should be placed about 1-2" below the top edge (as shown in picture) or right into the center of the fabric:



Pin and sew the pocket on along the dashed lines with a 1/8" allowance. Leave the side opening open. Backstitch the beginning and end:



This is your pocket sewn on:

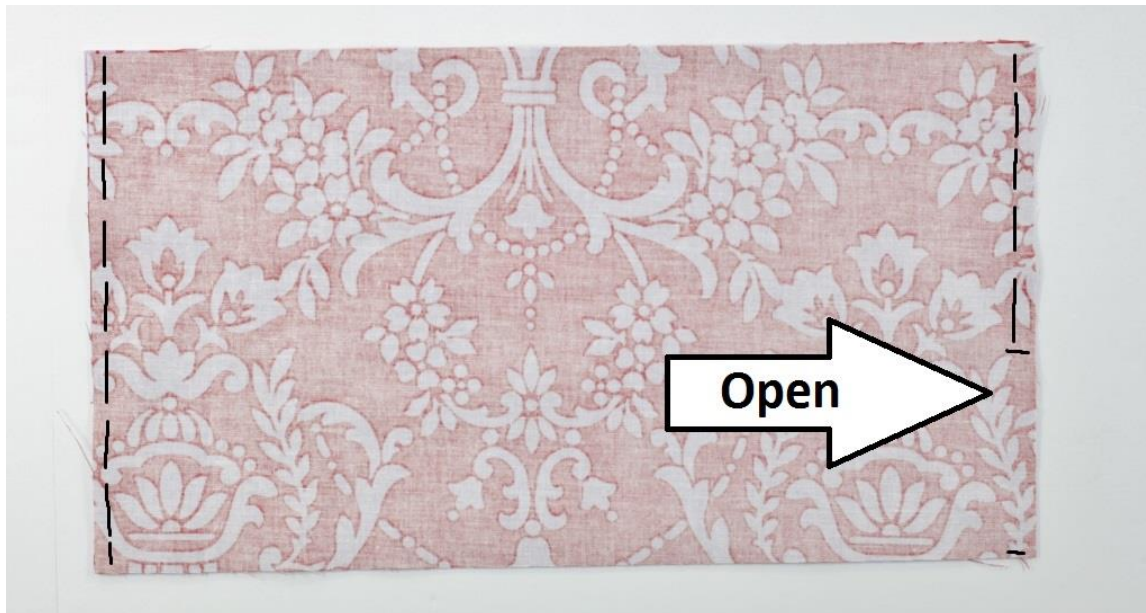


Repeat these steps with other pocket and sew it to the other side of the shorts with the side fold facing to the right now) in opposite direction:



**To create the waist band:**

Place the two pieces right sides together and print direction matching. Stitch along the dashed lines leaving a 1" opening on one of the sides at the bottom. Backstitch the beginning and end:



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There is no need to serge/zigzag stitch the raw seams.

Fold the waistband in half wrong sides together and press.



This is your waist band:



Lay it aside.



**To sew the rise:**

Place the two leg pieces right sides together matching up the rise edges. Sew along the dashed lines and backstitch the beginning and end. Zig zag or serge the raw edges.

**To gather the top edge:**

Set your sewing machine to the longest stitch length and the highest number tension. This way your machine should automatically gather your fabric! (If your machine doesn't allow this setting you may set your tension to 2-3 and to the longest stitch length and sew. Then manually pull the upper thread to gather your ruffle.)

Sew the front and back side separately. Start on one side and sew along the raw edge with a seam allowance of about  $\frac{1}{4}$  inch along the dashed line. Then sew the other side. This makes it easier for adjusting the gathers.



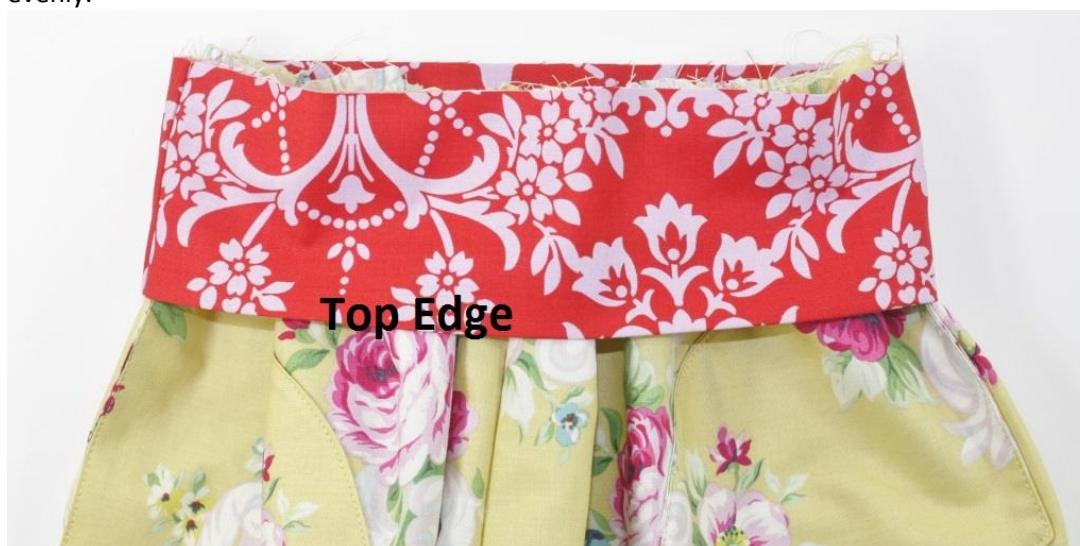
Reset your machine to regular stitch settings.

**To attach the waist band:**

Place your folded waist band with the folded edge on top and the casing opening inside, above the gathered shorts. Mark the center of the waistband with a fabric marker on both sides (front and back). Distribute the gathers of the shorts to the same width as the waist band. Make sure the sides are matching up and the center seam of the shorts will match the marked center of the waist band:



Flip the waist band over the shorts matching up your center points and side seams. Distribute the gathers evenly.



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Pin into place.



Sew all around the waistband along the dashed lines.



Serge or zig zag the raw edges.



**To create the waist band casing:**

With the fabrics right sides out, press the seam up and top stitch with a 1/8" allowance.

Measure 3/4" up from the seam (where the waistband meets the shorts) and draw a line with a fabric marker/pen. Sew along the dashed lines all the way around without leaving an opening. Backstitch the end:



**To insert the waist elastic:**

Secure a safety pin to your waist elastic and insert it into the inner waist band opening:



Overlap the beginning and end of the elastic by  $\frac{1}{2}$ " and sew it together with your double threaded hand sew needle. Stitch at least 10 times back and forth to secure the stitches well:



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Sew the opening shut:



**To insert the elastic in the leg bands:**

Secure a safety pin to one of your leg elastic and insert it into the leg casing.



Do not pull all the way through. When the end of the elastic meets the edge, pin into place and sew with a  $\frac{1}{4}$ " seam allowance.



Pull the safety pin all the way through and pin. Stitch into place with a  $\frac{1}{4}$  seam allowance. Remove the safety pin.



Repeat with the other leg.

This is your what your shorts look like now.



**To sew the crotch:**

Turn the shorts inside out and match up your crotch seam, elastic casings, and the bottom of the leg bands. Pin into place.





Sew together and finish with a serger or zig/zag stitch.



Tuck under the threads on the inside of the legs and top stitch:



You are finished!



Design examples:



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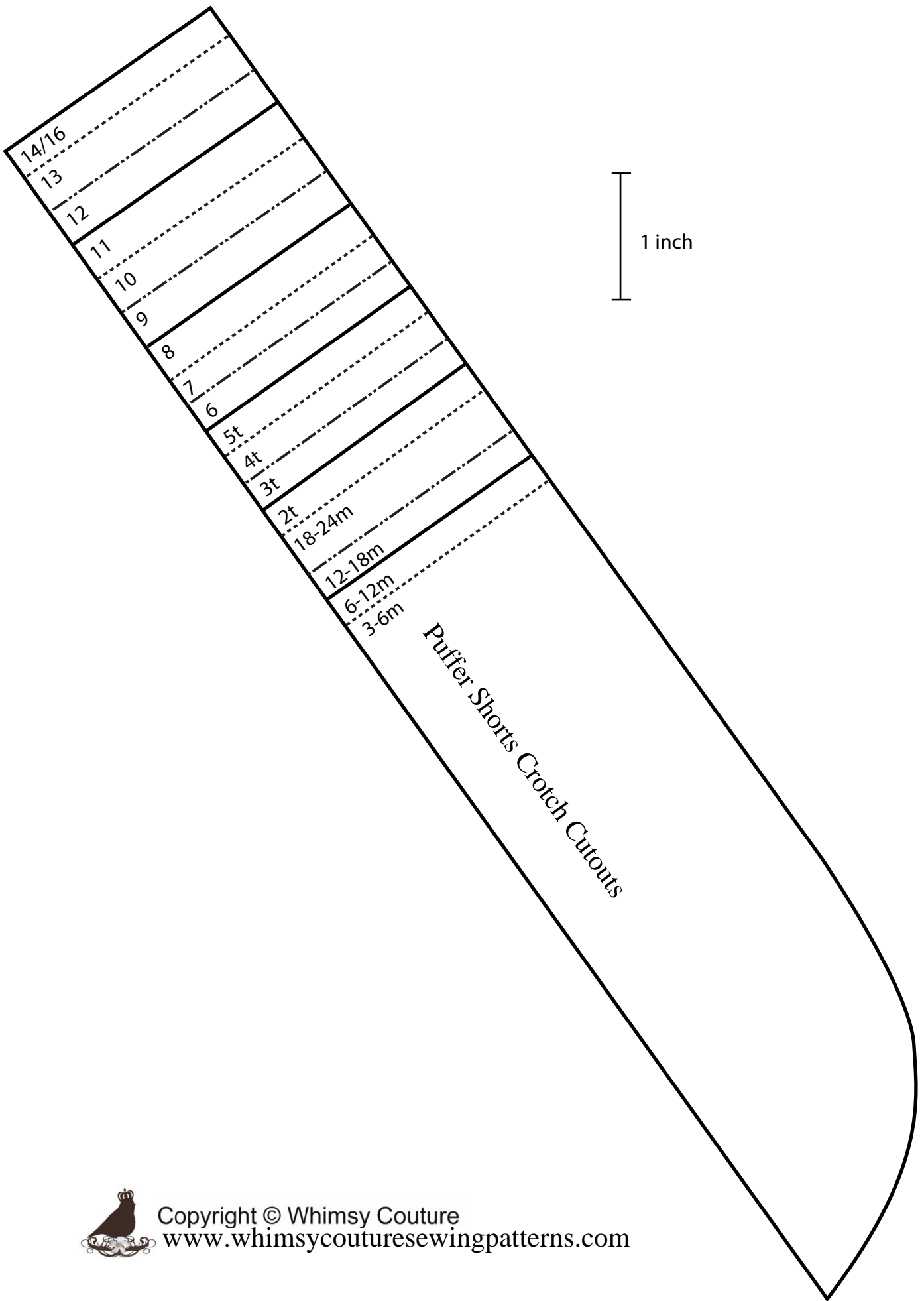
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1 inch

Puffer Shorts Crotch Cutouts



